
Initial Study

MacArthur Pump Station Rehabilitation Project

Newport Beach, California

Prepared for



Orange County Sanitation District

Prepared by

JACOBS

January 2015

Table of Contents

Table of Contents	i
1.0 Introduction	1
1.1 Background	1
1.2 Purpose	1
1.3 Statutory Requirements and Authority	1
1.4 Permits and Approvals.....	2
1.5 Agency Consultation and Coordination.....	2
2.0 Project Description	4
2.1 Project Background and Location	4
2.2 Project Elements	4
2.3 Project Construction	7
2.4 Project Operation.....	11
3.0 Environmental Checklist Form.....	12
3.1 Project Description and Background.....	12
3.2 Determination	14
3.3 Evaluation of Environmental Impacts.....	15
3.4 CEQA Checklist.....	17
4.0 Environmental Evaluation.....	29
4.1 Aesthetics.....	29
4.2 Agricultural Resources.....	30
4.3 Air Quality.....	30
4.4 Biological Resources	34
4.5 Cultural Resources	35
4.6 Geology and Soils	37
4.7 Greenhouse Gas Emissions	39
4.8 Hazards and Hazardous Materials.....	43
4.9 Hydrology and Water Quality	47
4.10 Land Use and Planning	49

4.11	Mineral Resources.....	50
4.12	Noise	51
4.13	Population and Housing.....	53
4.14	Public Services	53
4.15	Recreation	54
4.16	Transportation/Traffic.....	54
4.17	Utilities and Service Systems.....	57
4.18	Mandatory Findings of Significance	58
5.0	Preparers and Contributors	60
6.0	References.....	61

Appendix A: Construction Emission Calculations

Appendix B: Mitigation Monitoring and Reporting Plan

Appendix C: Comment Letters and Response to Comments

List of Figures

Figure 2-1:	Project Vicinity Map	5
Figure 2-2:	Project Area Map	6

List of Tables

Table 1-1:	Project Permits and Approvals	2
Table 2-1:	Construction Equipment for Pump Station Rehabilitation	9
Table 2-2:	Construction Equipment for Force Main Replacement	9
Table 2-3:	Construction Equipment for Manhole Modification	10
Table 2-4:	Construction Equipment for Gravity Sewer Lines Reconstruction.....	10
Table 4-1:	Projected Construction Emissions.....	32

Table 4-2: On-Road Greenhouse Gas Emissions 40

Table 4-3: Off-Road Greenhouse Gas Emissions 40

Acronyms and Abbreviations

AC	Air Conditioning
BMP	best management practice
CEQA	California Environmental Quality Act
CO	carbon monoxide
EIR	Environmental Impact Report
gpm	gallons per minute
HVAC	Heating, Ventilation, and Air Conditioning
lb/day	pounds per day
MGD	million gallons per day
ND	Negative Declaration
NO _x	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
PM ₁₀	particulate matter less than 10-microns
Project	MacArthur Pump Station Rehabilitation Project
ROC	reactive organic compounds
Sanitation District	Orange County Sanitation District
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District
SO _x	sulfur oxides
UBC	Uniform Building Code

1.0 Introduction

1.1 Background

This Initial Study has been prepared in accordance with the California Environmental Quality Act (CEQA) and the Guidelines for CEQA. The Initial Study examines the direct, indirect, growth-inducing, irreversible, short- and long-term and cumulative environmental effects associated with the construction and operation of the proposed MacArthur Pump Station Rehabilitation Project (Project). On May 24, 2006 a Negative Declaration was approved for the rehabilitation of the MacArthur Pump Station. However, because an extended period of time has elapsed since its adoption, and new elements have been added to the project, a new Initial Study document is required. The intent of this document is to re-evaluate the pump station rehabilitation, including the additional project elements under the current CEQA guidelines.

1.2 Purpose

Pursuant to Section 15063(a) of CEQA Guidelines, the Orange County Sanitation District (Sanitation District), acting in the capacity of Lead Agency, is required to undertake the preparation of an Initial Study to determine if the proposed action will have a significant effect on the environment. The purposes of this Initial Study are to: (1) identify potential environmental impacts, (2) provide the Lead Agency with information to use as the basis for deciding whether to prepare an Environmental Impact Report (EIR) or Negative Declaration (ND), (3) enable the Lead Agency to modify the proposed Project (through mitigation of adverse impacts), (4) facilitate assessment of potential environmental impacts early in the design of the proposed Project, and (5) provide documentation for the potential finding that the proposed Project will not have a significant effect on the environment or can be mitigated to a level of insignificance. This Initial Study is an informational document providing an environmental basis for subsequent discretionary actions that could be required from other Responsible Agencies.

1.3 Statutory Requirements and Authority

In the State of California CEQA Guidelines, Section 15063 identifies specific disclosure requirements for inclusion in an Initial Study. Pursuant to those requirements, an Initial Study shall include: (1) a description of the proposed Project, including the location of the Project site; (2) an identification of the environmental setting; (3) an identification of environmental effects by use of a checklist, matrix, or other method, provided that entries on a checklist or other form are briefly explained to indicate that some evidence exists to support the entries; (4) a discussion of ways to mitigate significant effects identified, if any; (5) an examination of whether the proposed Project is compatible with existing zoning, plans, and other applicable land-use controls; and (6) the name(s) of the person or persons who prepared or participated in the preparation of the Initial Study.

The Sanitation District will host a public meeting on December 11, 2014, located at the Orange County Sanitation District Administration Offices Board Room (10844 Ellis Avenue, Fountain Valley, CA 92708) at 6:00 p.m. to solicit comments on the proposed Project and this Initial Study. You may provide comments during the hearing or in writing. Comments will be considered before action is taken to approve, approve with amendments, or deny the proposed Project. **All comments must be received by December 20, 2014.**

Submit comments via postal mail or email to:

Daisy Covarrubias, Senior Staff Analyst
 Orange County Sanitation District, Planning Division
 10844 Ellis Ave, Fountain Valley, CA 92708-7018
 Email: dcovarrubias@ocsd.com

The Initial Study is available at www.ocsd.com. Copies are also available for viewing at:

- Orange County Sanitation District, Administrative Office Bldg., Engineering Department, 10844 Ellis Avenue, Fountain Valley, CA 92708
- Orange County Public Library – Costa Mesa, 1855 Park Ave., Costa Mesa, CA 92627
- Newport Beach Public Library, 1000 Avocado Avenue, Newport Beach, CA 92660
- Newport Beach Public Library – Mariners Branch, 2005 Dover Drive, Newport Beach, CA 92660

1.4 Permits and Approvals

Public agencies may use this Initial Study as the basis for their decisions to issue approvals and/or permits that could be applicable to the proposed Project. Table 1-1 provides a list of those entitlements and permits that could be required for the proposed Project.

Table 1-1: Project Permits and Approvals

Agency Name	Permit or Approval
South Coast Air Quality Management District	Permit to Construct
City of Newport Beach	Fire Permit/Approval of Traffic Control Plan

1.5 Agency Consultation and Coordination

The agencies listed in Table 1-1 could require the Sanitation District to obtain approval for the proposed Project. Coordination with other agencies would be required to determine the specific nature of any

future permits or approvals that could be required. Agencies would be notified pursuant to CEQA, and any subsequent comments would be considered accordingly. In addition, this document is intended to provide agencies and the general public with an environmental basis under CEQA to facilitate the dissemination of information deemed necessary to the discretionary approvals process and the approval, or conditional approval, of any aspect of the proposed Project within the jurisdiction of the agency.

2.0 Project Description

2.1 Project Background and Location

The Orange County Sanitation District (Sanitation District) is proposing to upgrade the existing MacArthur Pump Station in the City of Newport Beach (Figure 2-1). The Sanitation District maintains a collection system composed of sewers and pump stations. The collection system conveys wastewater from the Sanitation District member cities and other local agencies to treatment facilities located in the cities of Fountain Valley and Huntington Beach. The proposed Project would design and construct mechanical, electrical, instrumentation and controls, structural, and architectural improvements to bring the existing facility into compliance with current Sanitation District standards and local, state, and national laws.

The existing facility is located at 4219 MacArthur Boulevard in the City of Newport Beach (Figure 2-2). The pump station has two vertical, no clog sewage pumps (one duty and one standby). The proposed Project would replace the existing pumps with new pumps to accommodate existing and projected flows and add emergency standby capacity. The pump station receives flows from the local tributary sewage system and has a 12-inch-diameter force main that discharges into the Von Karman Trunk Sewer. The proposed Project would be located in an area comprising primarily commercial and professional businesses. Figure 2-2 shows the existing conditions at the proposed Project site.

This project was previously approved on May 24, 2006 for the pump station rehabilitation only. However, the pump station was not rehabilitated and additional construction elements have been added to the proposed design since that time. Specifically, the new project elements include replacing 2,130 feet of existing force main with high-density polyethylene pipe, modifying an existing manhole located at the intersection of Birch Street and MacArthur Boulevard, and reconstructing 2,000 feet of upstream sewers and manholes.

2.2 Project Elements

The proposed Project would consist of a new vault partially above ground to house new electrical equipment and controls and would replace the equipment in the existing pump station vault. The proposed Project consists of the following elements:

- mechanical improvements
- electrical modifications
- structural modifications
- architectural improvements

Figure 2-1: Project Vicinity Map

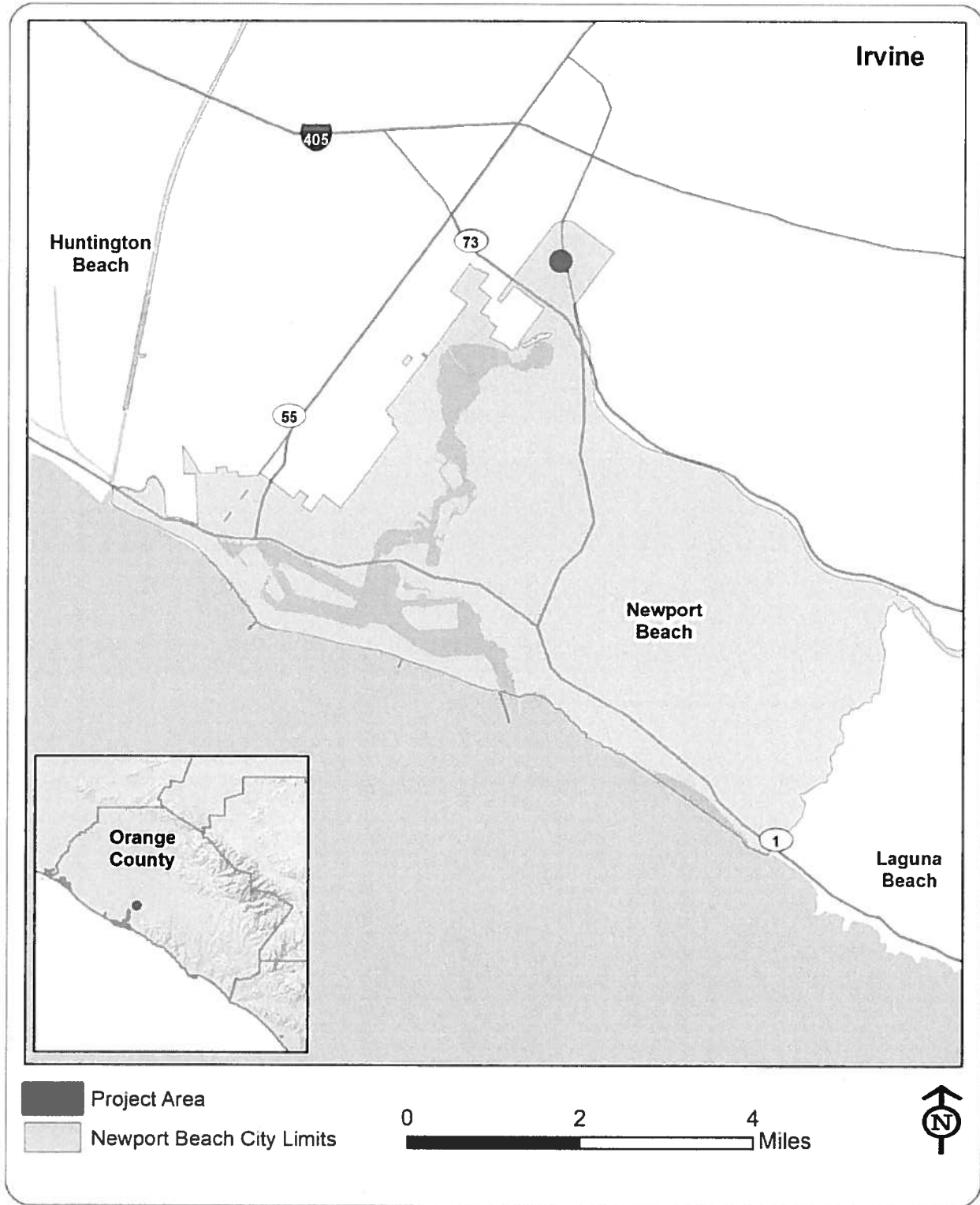
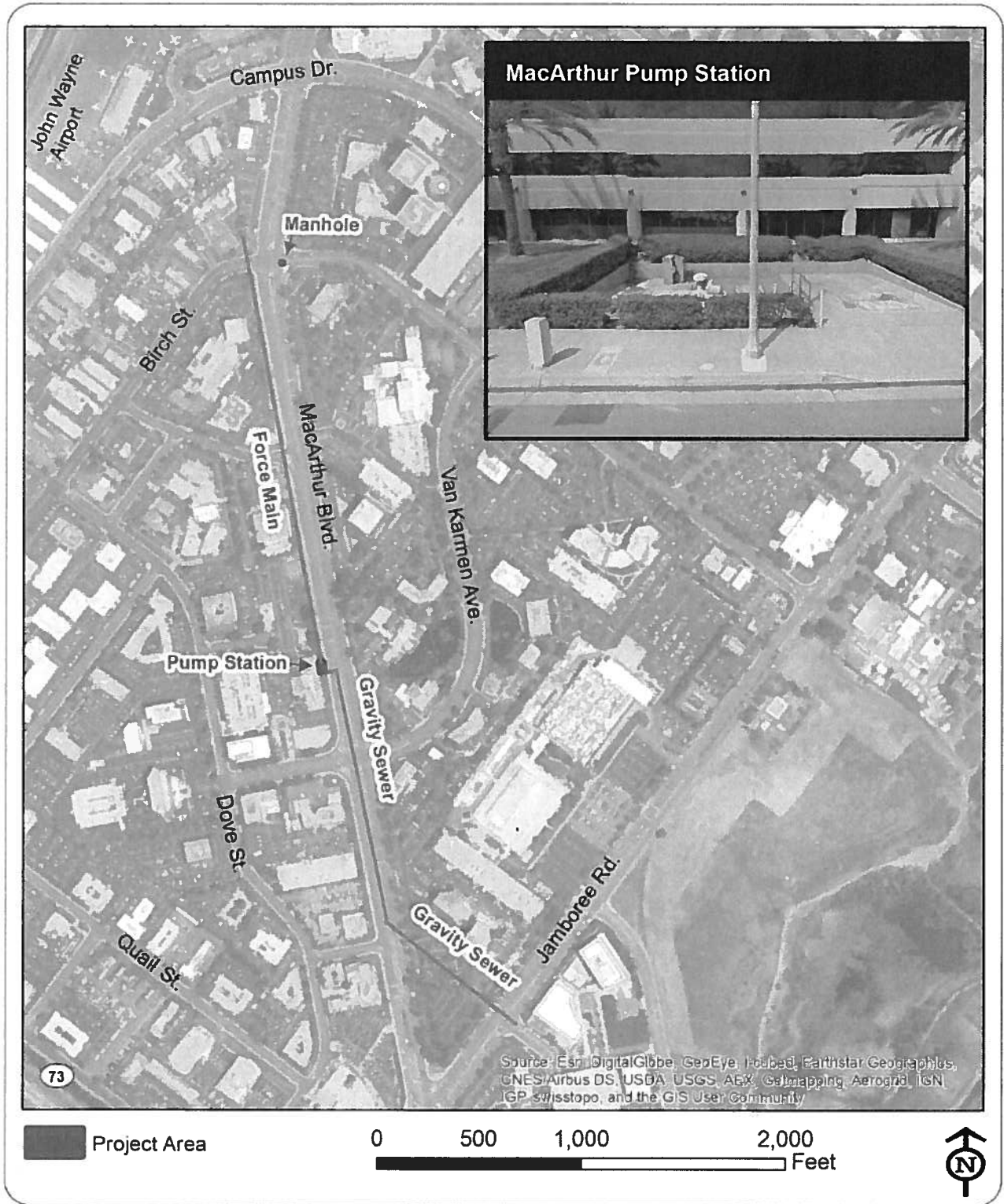


Figure 2-2: Project Area Map



Mechanical improvements for the proposed Project would include the replacement of existing pumps with new pumps, to accommodate the existing (2.4 MGD, 1650 gpm) and projected flows (2.8 MGD, 1945 gpm). The proposed Project would install the new pumps and include piping modifications within the existing structure. A flowmeter also would be added to the pump station.

Electrical modifications would include replacement of all existing electrical equipment. New electrical equipment would be placed in a new below-grade electrical vault (approximately 10 feet by 32 feet) to comply with existing electrical codes. The new electrical vault would be constructed within the western part of the existing Sanitation District easement.

Structural modifications would include a retrofit of the existing structure to comply with building standards for seismic stability, replacement of the existing precast concrete access equipment hatch with a new metal hatch, and replacement of the sidewalk hatch with a new sidewalk aluminum valve hatch. Additional project elements, not included in the 2006 Negative Declaration would include the following (see Figure 2-2 for locations of the pump station and new construction elements):

- Replacement of 2,130 feet of existing 12-inch asbestos cement force main with 2,150 feet of 12-inch high-density polyethylene pipe,
- Modification to a 72-inch manhole located at the intersection of Birch Street and MacArthur Boulevard, and
- Reconstruction of upstream gravity sewer lines and manholes along 2,000 feet of gravity sewer lines. New sewer lines will be installed parallel with an estimated 10 foot offset to the existing sewer lines. After installation of the new lines, the existing sewer lines will be abandoned in place using injected grout.

Architectural improvements would include the replacement of the existing sidewalk and landscape improvements to minimize potential visual impacts.

2.3 Project Construction

All proposed Project construction would take place within the proposed Project area, which includes public right-of-way (i.e., MacArthur Blvd.) and private property (see Figure 2-2). Access to the proposed Project area would be along MacArthur Boulevard. Construction staging would occur on the Project site, or on approved, adjacent privately held parcels. Additionally, construction vehicle may temporarily park on adjacent roads.

Construction Schedule

Under the current schedule, construction is anticipated to occur between July 2017 and July 2018. Construction would occur during permitted hours identified in the City of Newport Beach Building Code, and construction activities would comply with the City of Newport Beach Noise Ordinance. No construction activities would occur outside these hours or on Sundays or federal holidays unless a temporary waiver is granted by an authorized agency representative.

Traffic Control

The proposed Project would require the delivery of materials and equipment during construction. Deliveries and vehicle parking would be coordinated to minimize impacts to local traffic. Vehicles entering and exiting the proposed Project site during construction would use MacArthur Boulevard. Use of construction equipment would encroach on one lane of traffic along MacArthur Boulevard from the pump station to the Birch Street intersection, located approximately 2,000 feet to the north. Construction activities associated with the repair or replacement of the gravity sewer lines will likely require the closure of one to two lanes of traffic along MacArthur Boulevard and Jamboree Road. And construction activities associated with the modification of the existing manhole at the MacArthur Boulevard/Birch Street intersection will require the temporary closure on one lane of traffic. A traffic management plan, approved by the City of Newport Beach, would be implemented during construction of the proposed Project. Traffic control will allow vehicle traffic to continue along MacArthur Boulevard at all times during construction and could include flagmen and/or signs to direct traffic. During hours when construction does not occur, all lanes of traffic would be open along MacArthur Boulevard. Nighttime construction may be proposed to limit temporary impacts to traffic along MacArthur Boulevard. Any nighttime construction would be coordinated with the City of Newport Beach in accordance with applicable noise and traffic ordinances.

Excavation

Excavation will be required for the new improvements to the existing pump station, which include the construction of a below-grade vault (approximately 10 feet wide by 32 feet long by 6 feet deep), the removal and replacement of the force main adjacent to MacArthur Blvd, modification of the manhole at the Birch Street/MacArthur Boulevard intersection, and the reconstruction of two gravity sewer lines (see Figure 2-2 for locations of the project elements). Excavation would be limited to the proposed Project site. Excavation spoils and all solid waste produced during construction activities would be disposed at a properly permitted facility in accordance with federal and state laws.

Construction Equipment

The types of equipment anticipated for use during construction activities are listed in Table 2-1 through Table 2-4.

Table 2-1: Construction Equipment for Pump Station Rehabilitation

Activity	Equipment	Hours of Operation/Day	Number of Working Days	Number of Workers (Total)
Excavation	Excavator	6	2	2
	Front-end loader	6	2	1
	Dump truck	6	2	1
Facility Installation	Concrete truck	6	5	3
	Crane	6	2	3
Material Delivery	Delivery truck	6	15	1
Management Activities	Contractor pick-up truck (1)	8	180	1
	Sanitation District pick-up truck (1)	3	180	1
Contractor Staff	Pick-up trucks (3)	8	180	3

Table 2-2: Construction Equipment for Force Main Replacement

Activity	Equipment	Hours of Operation/Day	Number of Working Days	Number of Workers (Total)
Excavation	Excavator	6	60	4
	Front-end loader	8	80	1
	Dump truck (3)	8	80	1
Material Delivery	Delivery truck	4	30	2
	Fork lift	4	30	2
Management Activities	Contractor pick-up truck (1)	6	80	1
	Sanitation District pick-up truck (1)	6	80	1
Contractor Staff	Pick-up trucks (3)	6	80	3

Table 2-3: Construction Equipment for Manhole Modification

Activity	Equipment	Hours of Operation/Day	Number of Working Days	Number of Workers (Total)
Excavation	Excavator	6	10	2
	Front-end loader	6	15	2
	Dump truck (3)	6	10	1
Installation	Concrete truck	6	2	2
	Crane	6	5	2
Material Delivery	Delivery truck	6	1	1
Management Activities	Contractor pick-up truck (1)	6	15	1
	Sanitation District pick-up truck (1)	6	15	1
Contractor Staff	Pick-up trucks (3)	6	15	3

Assume precast materials

Table 2-4: Construction Equipment for Gravity Sewer Lines Reconstruction

Activity	Equipment	Hours of Operation/Day	Number of Working Days	Number of Workers (Total)
Excavation	Excavator	6	100	2
	Front-end loader	6	100	2
	Dump truck (3)	8	100	2
Installation	Concrete truck	2	16	2
	Crane	4	32	2
Material Delivery	Delivery truck	4	32	2
Management Activities	Contractor pick-up truck (1)	6	100	1
	Sanitation District pick-up truck (1)	6	100	1
Contractor Staff	Pick-up trucks (3)	6	100	3

Assume precast materials

2.4 Project Operation

Project operation would include routine facility inspection and maintenance. Vehicles entering and exiting the proposed Project site during operation would use MacArthur Boulevard. During routine facility inspection and maintenance, a maintenance truck would park on site. Routine facility inspection and maintenance would include the following types of activities:

- Weekly inspection of mechanical and electronic components would be performed to ensure proper functioning.
- System features that are found to be not functioning properly during inspection would be maintained, repaired, and/or replaced.
- Scheduled preventative maintenance would be completed on a quarterly and annual basis in conformance with Sanitation District Preventative Maintenance Standard Procedure.
- Landscape and hardscape maintenance, litter control, and graffiti removal would be conducted.

3.0 Environmental Checklist Form

3.1 Project Description and Background

1. Project Title

MacArthur Pump Station Rehabilitation Project

2. Lead Agency Name and Address:

Orange County Sanitation District, 10844 Ellis Avenue, Fountain Valley, CA 92708

3. Contact Person and Phone Number:

Daisy Covarrubias (714) 593-7119

4. Project Location:

4219 MacArthur Boulevard, Newport Beach, CA 92660

5. Project Sponsor's Name and Address:

Orange County Sanitation District, 10844 Ellis Avenue, Fountain Valley, CA 92708

6. General Plan Designation:

The proposed Project site is designated as Mixed Use Horizontal (i.e., commercial, office, multi-family residential) under the City of Newport Beach General Plan Land Use Element (2014a).

7. Zoning:

The proposed Project site is zoned as Planned Community (City of Newport Beach 2014b).

8. Description of Project:

The proposed Project would design and construct mechanical, electrical, instrumentation and controls, structural, and architectural improvements to bring the facility into compliance with Sanitation District standards and local and state codes.

9. Surrounding Land Uses and Setting:

Land use surrounding the proposed Project site is mainly commercial and professional businesses.

10. Other public agencies whose approval is required:

The Sanitation District would be required to obtain approvals from the City of Newport Beach.

11. Environmental Factors Potentially Affected:

The environmental factors checked below potentially would be affected by this project, involving at least one impact that is a “Potentially Significant Impact” as indicated by the checklist on the following pages.

The environmental factors checked below would be potentially affected by this project. Please see the Environmental Checklist for additional information.

<input type="checkbox"/>	Aesthetics	<input type="checkbox"/>	Agriculture and Forestry	<input type="checkbox"/>	Air Quality
<input type="checkbox"/>	Biological Resources	<input type="checkbox"/>	Cultural Resources	<input type="checkbox"/>	Geology/Soils
<input type="checkbox"/>	Greenhouse Gas Emissions	<input type="checkbox"/>	Hazards and Hazardous Materials	<input type="checkbox"/>	Hydrology/Water Quality
<input type="checkbox"/>	Land Use/Planning	<input type="checkbox"/>	Mineral Resources	<input type="checkbox"/>	Noise
<input type="checkbox"/>	Population/Housing	<input type="checkbox"/>	Public Services	<input type="checkbox"/>	Recreation
<input type="checkbox"/>	Transportation/Traffic	<input type="checkbox"/>	Utilities/Service Systems	<input type="checkbox"/>	Mandatory Findings of Significance

3.2 Determination

On the basis of this initial evaluation:

<input type="checkbox"/>	I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
<input checked="" type="checkbox"/>	I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
<input type="checkbox"/>	I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
<input type="checkbox"/>	I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
<input type="checkbox"/>	I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION , including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required

Signature:

Kathleen Miller

Date:

11/18/2014

Printed name:

Kathleen Miller

For:

OCSD

3.3 Evaluation of Environmental Impacts

- 1) A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2) All answers must take account of the whole action involved, including offsite as well as onsite, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the Lead Agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an EIR is required.
- 4) “Negative Declaration: Less Than Significant With Mitigation Incorporation” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a “Less Than Significant Impact.” The Lead Agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section XVII, “Earlier Analyses,” may be cross-referenced).
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration (Section 15063(c)(3)(D)). In this case, a brief discussion should identify the following:
 - a. Earlier Analysis Used. Identify and state where they are available for review.
 - b. Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c. Mitigation Measures. For effects that are “Less than Significant with Mitigation Incorporation,” describe the mitigation measures that were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.

- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- 9) The explanation of each issue should identify:
 - a. The significance criteria or threshold, if any, used to evaluate each question; and
 - b. The mitigation measure identified, if any, to reduce the impact to less than significance.

3.4 CEQA Checklist

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
I.	AESTHETICS: Would the project:				
a)	Have a substantial adverse effect on a scenic vista	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b)	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c)	Substantially degrade the existing visual character or quality of the site and its surroundings?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d)	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
II.	AGRICULTURE AND FOREST RESOURCES: In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and the forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:				
a)	Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b)	Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
c)	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d)	Result in the loss of forest land or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e)	Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
III.	AIR QUALITY: Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:				
a)	Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b)	Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c)	Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d)	Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e)	Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
IV.	BIOLOGICAL RESOURCES: Would the project:				
a)	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b)	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c)	Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d)	Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e)	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f)	Conflict with the provisions of an adopted Habitat Conservation Plan; Natural Community Conservation Plan; or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
V.	CULTURAL RESOURCES: Would the project:				
a)	Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
b)	Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c)	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d)	Disturb any human remains, including those interred outside formal cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VI.	GEOLOGY AND SOILS: Would the project:				
a)	Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i)	Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ii)	Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iii)	Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iv)	Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b)	Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c)	Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or offsite landslide, lateral spreading, subsidence, liquefaction, or collapse?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d)	Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
e)	Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VII.	GREENHOUSE GAS EMISSIONS: Would the project:				
a)	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b)	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VIII.	HAZARDS AND HAZARDOUS MATERIALS: Would the project:				
a)	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b)	Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c)	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d)	Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within 2.0 miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
f)	For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g)	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h)	Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
IX.	HYDROLOGY AND WATER QUALITY: Would the project:				
a)	Violate any water quality standards or waste discharge requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b)	Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of preexisting nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on or off site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on or off site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
e)	Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f)	Otherwise substantially degrade water quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g)	Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h)	Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i)	Expose people or structures to a significant risk of loss, injury, or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
j)	Inundation by seiche, tsunami, or mudflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
X.	LAND USE AND PLANNING: Would the project:				
a)	Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b)	Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c)	Conflict with any applicable habitat conservation plan or natural community conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XI.	MINERAL RESOURCES: Would the project:				
a)	Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
b)	Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XII.	NOISE: Would the project result in:				
a)	Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance or applicable standards of other agencies?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b)	Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c)	A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d)	A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within 2.0 miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f)	For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XIII.	POPULATION AND HOUSING: Would the project:				
a)	Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
b)	Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c)	Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XIV.	PUBLIC SERVICES:				
a)	Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:				
	Fire protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XV.	RECREATION:				
a)	Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b)	Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
XVI.	TRANSPORTATION/TRAFFIC: Would the project:				
a)	Conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to, intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b)	Conflict with an applicable congestion management program, including, but not limited to, level of service standards and travel demand measures or other standards established by the county congestion management agency for designated roads or highways?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c)	Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d)	Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e)	Result in inadequate emergency access?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f)	Conflict with adopted policies, plans or programs regarding public transit, bicycle, or pedestrian facilities or otherwise decrease the performance or safety of such facilities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
XVII.	UTILITIES AND SERVICE SYSTEMS: Would the project:				
a)	Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b)	Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
c)	Require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d)	Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e)	Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f)	Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g)	Comply with federal, state, and local statutes and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XVIII.	MANDATORY FINDINGS OF SIGNIFICANCE				
a)	Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b)	Does the project have impacts that are individually limited but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
c)	Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4.0 Environmental Evaluation

The following evaluation provides responses to the questions in the Environmental Checklist. A brief explanation for each question in the Environmental Checklist is provided to adequately support each impact determination. All responses consider the whole of the action involved, including construction and operational impacts as well as direct and indirect impacts. Environmental factors potentially affected by the proposed Project are presented below and organized according to the format of the Checklist.

4.1 Aesthetics

Would the project:

- a) Have a substantial adverse effect on a scenic vista?

No Impact - No scenic vista is related to the proposed Project.

- b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

Less Than Significant Impact – Although the proposed Project is located within a landscaped area that includes trees, no substantial impacts to scenic resources will occur as a result of this project. There are landscaped trees that may need to be removed, but the number of trees would be small and would not degrade the overall scenic resources of the area. And the disturbed areas will be returned to preconstruction conditions to the maximum extent possible. Additionally, the proposed Project will include landscaping around the pump station, which will serve as a visual screen. Furthermore, the project site is not located within or adjacent to a state scenic highway.

- c) Substantially degrade the existing visual character or quality of the site and its surroundings?

Less Than Significant Impact – Construction of the proposed Project would result in a temporary visual impact at the Project site; however, the level of construction activity is small in scope and would be limited to the proposed Project site. Thus, construction activity related to the proposed Project would not substantially degrade the existing visual character or quality of the site and its surroundings. No long-term impacts to the visual character would occur because the area immediately adjacent to the pump station would be landscaped following rehabilitation of the pump station.

This limited modification of the existing conditions at the proposed Project site would not degrade the existing visual character or quality of the site and its surroundings.

- d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less Than Significant Impact – Temporary construction activities would generally occur during daylight, but may also occur during the nighttime, which would require additional lighting. Operation of the proposed Project would require inside nighttime lighting and would not affect views of the area. The proposed Project could temporarily create a new source of light and glare from the nighttime construction activities but it would be short in duration and not substantial.

Mitigation Measures

The proposed Project would not result in a significant adverse impact to Aesthetics. No mitigation measures are proposed.

4.2 Agricultural Resources

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. Would the project:

- a-e) **No Impact** – The project site does not contain any farmlands, parcels encumbered under the Williamson Act, forested, or timberland production zones. Thus, no impacts to these resources would occur as a result of this Project.

Mitigation Measures

The proposed Project would not result in a significant adverse impact to Agricultural Resources. No mitigation measures are proposed.

4.3 Air Quality

Criteria for determining the significance of air quality impacts are based on federal, state, and local air pollution standards and regulations. Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make significance determinations.

Significance Criteria

The proposed Project is located within the South Coast Air Basin (SCAB). Construction and operation activities associated with the proposed Project must be consistent with the Air Quality Management Plan that is managed by the South Coast Air Quality Management District (SCAQMD).

Thresholds of significance for allowable construction and operational air emissions have been established by the SCAQMD and are provided below.

Thresholds of Significance for Construction Emissions:

- 75 pounds per day of reactive organic compounds (ROC)
- 100 pounds per day of nitrogen oxides (NO_x)
- 550 pounds per day of carbon monoxide (CO)
- 150 pounds per day of particulate matter less than 10 microns in diameter (PM₁₀)
- 150 pounds per day of sulfur oxides (SO_x)

Projects in the SCAB with construction-related emissions that exceed any of the emissions thresholds may be considered to have significant air quality impacts.

Thresholds of Significance for Operational Emissions:

- 55 pounds per day of ROC
- 55 pounds per day of NO_x
- 550 pounds per day of CO
- 150 pounds per day of PM₁₀
- 150 pounds per day of SO_x

Projects in the SCAB with operation-related emissions that exceed any of the emissions thresholds may be considered to have significant air quality impacts.

Would the project:

- a) Conflict with or obstruct implementation of the applicable air quality plan?

No Impact – Construction-related emissions would be primarily dust generated from excavation and grading, exhaust emissions from construction equipment, and motor vehicle emissions associated with construction activities. Construction of the proposed Project would not result in a significant air quality impact. Project construction activities would not conflict with or obstruct implementation of the SCAQMD Air Quality Plan.

To evaluate potential construction-related air quality impacts, anticipated construction emissions were determined and compared to the thresholds of significance for construction emissions listed above. Construction emissions were evaluated based on 2007 data from SCAQMD (see Appendix A). Table 4-1 below summarizes the construction emissions of criteria pollutants (NO_x, CO, PM₁₀, ROC, and SO_x) that would occur from the operation of construction vehicles for all elements of construction (pump station rehabilitation, force main replacement, manhole

modification, and gravity sewer line reconstruction). Emissions associated with construction of the proposed Project would be below thresholds of significance for construction. Therefore, the construction emissions impacts would be less than significant. Operation of the pump station would have no impact on air quality.

Table 4-1: Projected Construction Emissions

Attribute	Emissions				
	NO _x	CO	PM ₁₀	ROC	SO _x
Pump Station Rehabilitation					
Max Project, pounds per day (lb/day)	31.51	20.95	77.53	5.48	5.31
SCAQMD Significance Threshold (lb/day)	100	550	150	75	150
Project Significance	No	No	No	No	No
Force Main Replacement					
Max Project, pounds per day (lb/day)	15.15	9.28	1.56	1.46	0.02
SCAQMD Significance Threshold (lb/day)	100	550	150	75	150
Project Significance	No	No	No	No	No
Manhole Modification					
Max Project, pounds per day (lb/day)	1.55	0.96	0.75	0.13	0.003
SCAQMD Significance Threshold (lb/day)	100	550	150	75	150
Project Significance	No	No	No	No	No
Gravity Sewer Line Reconstruction					
Max Project, pounds per day (lb/day)	12.02	7.75	1.38	1.16	0.02
SCAQMD Significance Threshold (lb/day)	100	550	150	75	150
Project Significance	No	No	No	No	No

Source: Orange County Sanitation District 2006

Operational emissions would be limited to emissions associated with scheduled maintenance of the proposed facility and would not increase from existing levels as a result of the proposed Project. Operations of the proposed Project would not result in a significant impact. Operational activities would not conflict with or obstruct implementation of the SCAQMD Air Quality Plan.

- b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?

Less Than Significant Impact – The proposed Project site is located within the SCAB. The SCAQMD regulates stationary mobile air emission sources within the SCAB. Potential air quality impacts associated with the proposed Project could result from temporary construction activities. As described in 4.3.a above, emissions associated with construction of the proposed Project would be below thresholds of significance for construction. Therefore, the construction emissions impacts would be less than significant. Operation of the pump station would have no impact on air quality.

- c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors)?

Less Than Significant Impact – New emissions associated with the proposed Project would be limited to temporary construction activities and vehicle emissions from scheduled maintenance during operation of the pump station. As described in Response 4.3.b, above, the proposed Project would not result in the exceedance of SCAQMD-established air quality standards during construction or operation. For this reason, construction and operation of the proposed Project would not result in a cumulatively considerable net increase of any criteria pollutant for which the SCAB is in nonattainment.

- d) Expose sensitive receptors to substantial pollutant concentrations?

No Impact – Sensitive receptors include schools, hospitals, and convalescent homes. Children, elderly people, and the infirm are considered to be more sensitive than others to criteria air pollutants. Criteria air pollutants are those that are associated with numerous effects on human health. The proposed Project site is in the City of Newport Beach, and the surrounding area consists mainly of commercial and professional businesses. The nearest sensitive receptor (i.e., Newport Urgent Care) is located 0.5 mile southwest of the Project site. As described in Response 4.3.b, above, a temporary increase in emissions of criteria air pollutants during construction would not exceed SCAQMD-established air quality standards. Additionally, operational emissions would not exceed SCAQMD-established air quality standards. Because the proposed Project is not within a residential area and because of its low-level of emissions, the proposed Project is not anticipated to have any impacts on sensitive receptors during construction or operation.

- e) Create objectionable odors affecting a substantial number of people?

Less Than Significant Impact – Project activities would create a small amount of objectionable odors during construction when the subgrade facilities are open to the atmosphere. During operation, manholes and equipment access covers would be closed and sealed at all times, thus limiting the potential for odor impacts. Additionally, an odor assessment and odor control plan would be implemented during construction and operation. The odor assessment and odor control plan would include the use of a portable carbon system during all tie-in and pump

commissioning activities (Sanitation District 2006b). Also, all activities would minimize manhole exposure and duration to limit potential odor impacts during construction and operation. Therefore, the proposed Project would have a less than significant impact associated with the creation of objectionable odors affecting a substantial number of people.

Mitigation Measures

The proposed Project would not result in a significant adverse impact related to Air Quality. No mitigation measures are proposed.

4.4 Biological Resources

Would the project:

- a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

No Impact – The proposed Project site is located in an area zoned for Mixed Use Horizontal (i.e., commercial, office, and multi-family residential) under the City of Newport Beach General Plan Land Use Element (2014a) and is located within a developed urban area that does not support native habitat of any identified species. No impacts to any species are anticipated.

- b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

No Impact – The proposed Project site is located within a developed urban area, zoned and in use as Mixed Use Horizontal and does not support any riparian habitat or other sensitive natural communities identified in local or regional plans, policies, or regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service. No impact to these resources is anticipated.

- c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No Impact – The proposed Project site is located within a developed urban area, zoned and in use as Mixed Use Horizontal and does not contain any federally protected wetlands nor is it located near any federally protected wetlands. No federally protected wetlands would be affected.

- d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

No Impact – The proposed Project site is located within a developed urban area, zoned and in use as Mixed Use Horizontal and does not support native habitat or any migratory fish or wildlife species. Furthermore, the proposed Project site is not located within a migratory wildlife corridor or native wildlife nursery site. No impacts to these resources are anticipated as a result of the proposed Project.

- e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

No Impact – No local policies or ordinances have been enacted to protect biological resources for the area surrounding the proposed Project site. No impact with any local policies or ordinances protecting biological resources would occur.

- f) Conflict with the provisions of an adopted Habitat Conservation Plan; Natural Community Conservation Plan; or other approved local, regional, or state habitat conservation plan?

No Impact – The proposed Project is outside the County of Orange Central and Coastal Natural Community Conservation Plan, which is a special area management plan established to protect prime habitat and state-listed species in Orange County. The proposed Project would not conflict with the provisions of an adopted Habitat Conservation Plan; Natural Community Conservation Plan; or other approved local, regional, or state habitat conservation plan.

Mitigation Measures

The proposed Project would not result in a significant adverse impact to Biological Resources. No mitigation measures are proposed.

4.5 Cultural Resources

Would the project:

- a) Cause a substantial adverse change in the significance of a historical resource as defined in section 15064.5?

No Impact – The proposed Project would rehabilitate and upgrade an existing pump station that was constructed in 1960/1961. Results from a 2014 record search conducted at the California Historical Resources Information System (CHRIS), South Central Coastal Information Center (SCCIC) at California State University, Fullerton, indicated that the proposed Project site does not contain any cultural resources with the direct Area of Potential Effects (APE). Construction

and operation of the proposed Project would have no impacts on historic resources as defined in Section 15064.5.

Two cultural resources have been identified within the ½ mile search radius of the proposed Project site (indirect APE). Neither of these resources would be affected by the proposed Project. The sites are identified as Site P-30-000115A and P-30-000115B. Both are prehistoric shell midden sites that were recorded during surface surveys conducted in 1963, 1966, 1976, and 1985. The 1985 survey identified Site P-30-000115A as having been destroyed. The condition of Site P-30-000115B was noted in the 1985 survey as still having an intact midden component. However, neither site is located within the direct APE nor would neither site be affected by the proposed Project.

In addition, 16 cultural resource studies have been conducted within the ½ mile search radius. These are reports OR-246, OR-252, OR-574, OR-774, OR-933, OR-939, OR-1016, OR-1708, OR-2225, OR-2256, OR-2301, OR-2471, OR-2494, OR-2534, OR-3705, and OR-4103. None of these studies have any direct application to the proposed Project site.

- b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to section 15064.5?

No Impact – The proposed Project site is located in an area that has been heavily disturbed and the depth of excavation is not anticipated to exceed six feet. Additionally, all excavation work would occur within a previously disturbed area where no archaeological resources would be anticipated to occur. Therefore, the proposed Project would not affect archaeological resources and would not cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5.

- c) Directly or indirectly destroy a unique paleontological resource on site or unique geologic feature?

No Impact – The proposed Project site is located in an area that has been heavily disturbed and the depth of excavation is not anticipated to exceed six feet. As such, the proposed Project would affect areas that already have been disturbed and would not involve any excavation into undeveloped lands. Therefore, the proposed Project would not directly or indirectly destroy a unique paleontological resource on site or a unique geologic feature.

- d) Disturb any human remains, including those interred outside of formal cemeteries?

No Impact – The proposed Project site is located in an area that has been heavily disturbed and the depth of excavation is not anticipated to exceed six feet. As such, the proposed Project would not involve any excavation into undeveloped lands. Therefore, the proposed Project is not anticipated to result in a significant adverse impact related to the disturbance of human remains.

Mitigation Measures

The proposed Project would not result in a significant adverse impact to Cultural Resources. No mitigation measures are proposed.

4.6 Geology and Soils

Would the project:

- a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:
 - i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?

Less Than Significant Impact – Surface fault rupture is the offset or rupture of the ground surface by relative displacement across a fault during a seismic event or earthquake. The 2007 edition of Special Publication 42 (California Department of Conservation, Division of Mines and Geology), shows that the proposed Project is not located in an Alquist-Priolo Special Study Zone. Exposure of people or structures to potential substantial adverse effects, including risk of loss, injury, or death, from the rupture of a known earthquake fault is considered to be a less than significant impact.

- ii. Strong seismic ground shaking?

Less Than Significant Impact – The proposed Project site is located in a seismically active area, as is the majority of southern California; and the potential exists for strong ground motion. Twelve regional faults are within 50 miles of the proposed Project site. The closest fault is the Newport-Inglewood fault, which is located approximately 4 miles west of the Project site. The other 11 faults are the Newport-Inglewood (Offshore) fault, the Palos Verdes fault, the Elsinore-Whittier fault, the Chino-Central Avenue (Elsinore) fault, the Elsinore-Glen Ivy fault, the San Jose fault, the Sierra Madre (Central) fault, the Cucamonga fault, the Raymond fault, the San Andreas-Southern fault, and the San Andreas-1857 rupture fault. The proposed Project would be designed and constructed in conformance with the Uniform Building Code (UBC) 1997 seismic engineering standards and other applicable jurisdiction and building codes. Exposure of people or structures to potential adverse effects, including risk of loss, injury, or death, from strong seismic ground shaking is considered to be a less than significant impact.

- iii. Seismic-related ground failure, including liquefaction?

Less Than Significant Impact – The potential for seismic-related ground failure is associated with the probability of severe ground shaking as a result of an earthquake or a nearby active fault. Liquefaction is the phenomenon that occurs when saturated granular soils develop high pore water pressures during seismic shaking and behave like a heavy fluid. This phenomenon generally occurs in areas of high seismicity where groundwater is shallow and loose granular soils or hydraulic fill soils subject to liquefaction are present. For liquefaction to develop loose granular sediments below the groundwater table must be present; and shaking of sufficient magnitude and duration must occur.

The proposed Project is not mapped as a liquefaction zone according to the maps of seismic hazard zones prepared by the California Department of Conservation, Division of Mines and Geology (2007) (Sanitation District 2006b). Additionally, the proposed Project would rehabilitate and upgrade an existing pump station and would be designed and constructed in conformance with the UBC 1997 seismic engineering standards. Because construction would be temporary and operation would require minimal onsite operations and maintenance staff, exposure of people or structures to potential substantial adverse effects, including risk or loss, injury, or death, from seismic-related ground failure, including liquefaction, is considered to be a less than significant impact.

iv. Landslides?

No Impact – The proposed Project is not located in an area of probable landslides. The proposed Project would not result in an impact related to landslides.

b) Result in substantial soil erosion or the loss of topsoil?

No Impact – The proposed Project is a paved pump station, and excavation would occur within a contained area. Construction of the proposed Project would include approximately 50 cubic yards of excavation. Excavation would occur within a contained area and would limit the loss of topsoil due to wind erosion. Excavation soil not replaced as fill would be disposed at a properly permitted facility in accordance with federal and state laws. Because the proposed Project site is contained and the amount of excavation is relatively small, the proposed Project is not anticipated to result in impacts related to substantial soil erosion or loss of topsoil.

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or offsite landslide, lateral spreading, subsidence, liquefaction, or collapse?

Less Than Significant Impact – Evaluation of liquefaction and landslides is provided in Responses 4.6a.iii and iv, above. The proposed Project would rehabilitate and upgrade an existing pump station and would be designed and constructed in conformance with the UBC 1997 seismic engineering standards. Potential impacts due to an unstable geologic unit or soil,

including onsite or offsite landslide, lateral spreading, subsidence, liquefaction, or collapse, would be less than significant.

- d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?

Less Than Significant Impact – Subsurface soils encountered during geotechnical investigation generally consisted of sandy clays and clayey sands with some cleaner sands and were classified as soils with low expansive potential (Sanitation District 2006b). Additionally, the proposed facility would rehabilitate and upgrade an existing pump station and would be designed in compliance with requirements of governing jurisdictions and applicable building codes. Therefore, the proposed Project would not result in a significant adverse impact from expansive soil creating substantial risks to life or property.

- e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

No Impact – No septic tanks or alternative wastewater disposal systems would serve the proposed Project. The proposed Project would not result in impacts related to septic tanks or alternative wastewater disposal systems.

Mitigation Measures

The proposed Project would not result in a significant adverse impact to Geology and Soils. No mitigation measures are proposed.

4.7 Greenhouse Gas Emissions

Would the project:

- a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less Than Significant – Construction emissions would be short-term and within the SCAQMD's thresholds (10,000 metric tons per year for CO₂ equivalent). GHG emissions were evaluated based on projected 2007 data from SCAQMD. Table 4-2 summarizes the on-road GHG emissions based on the total number of trips, the distance traveled, and the emission factors. Table 4-3 summarizes the off-road GHG emissions based on the construction equipment used, the hours of operation, and the emission factors. Operation of the proposed Project would not create an increase in GHG emissions. Therefore, the proposed Project's impacts on greenhouse-gas emissions would be less than significant.

Table 4-2: On-Road Greenhouse Gas Emissions

Source	Emission Factors	Parameters			CO2 Emissions (lbs/day)	CO2 Emissions (metric tons/year)
		Number of Vehicles	Total Number of Trips	Distance Traveled per Trip		
Construction Workers Commuting	1.1067	16	32	20	708.288	117.3421
Light-duty Trucks Onsite	2.7225	5	5	5	68.0625	11.27591
Daily Delivery Trucks	2.7225	1	3	20	253.308	41.96554
Dump Trucks	4.2218	1	7	10	295.526	48.95979
Total					1325.19	219.54

Emission calculations assume that all construction phases overlap.

Worker commute is assumed to be 20 miles per trip.

Daily Delivery Truck trip distance is assumed to be 20 miles per trip.

Source: SCAQMD. On-Road Mobile Source Emission Factors Scenario Year 2007.

Table 4-3: Off-Road Greenhouse Gas Emissions

Equipment Type	Number	Hour/Day Operation	Horsepower	CO2 Emission Factors (lbs/hr)	CO2 Emissions (lbs/day)	CO2 Emissions (metric tons/year)
Pump Station Rehabilitation						
Concrete Saw	1	4	120	74.1	296.4	49.10459
Concrete Breaker	1	4	120	74.1	296.4	49.10459
Dump Truck	1	8	25	7.6	60.8	10.07274
Dump Truck	1	6	25	7.6	45.6	7.554552
Excavator	1	6	175	112	672	111.3302
Forklift	1	4	120	31.2	124.8	20.67562
Off-Highway Trucks (pick-up trucks)	12	6	500	272	1632	270.3734
Off-Highway Trucks (water truck)	1	4	500	272	1088	180.249
Paver	1	6	120	69.2	415.2	68.78618
Roller	1	6	120	59.0	354	58.64718
Front End Loader	1	8	120	51.7	413.6	68.52111
Front End Loader	1	6	120	51.7	310.2	51.39083

Equipment Type	Number	Hour/Day Operation	Horsepower	CO2 Emission Factors (lbs/hr)	CO2 Emissions (lbs/day)	CO2 Emissions (metric tons/year)
Total					5709.00	945.81
Force Main Replacement						
Concrete Saw	1	4	120	74.1	296.4	49.10459
Concrete Breaker	1	4	120	74.1	296.4	49.10459
Dump Truck	1	8	25	7.6	60.8	10.07274
Dump Truck	1	6	25	7.6	45.6	7.554552
Excavator	1	6	175	112	672.0	111.3302
Forklift	1	4	120	31.2	124.8	20.67562
Off-Highway Trucks (pick-up trucks)	12	6	500	272	1632.0	270.3734
Off-Highway Trucks (water truck)	1	4	500	272	1088.0	180.249
Paver	1	6	120	69.2	415.2	68.78618
Roller	1	6	120	59	354.0	58.64718
Front End Loader	1	8	120	51.7	413.6	68.52111
Front End Loader	1	6	120	51.7	310.2	51.39083
Total					5709.00	945.81
Manhole Modification						
Concrete Truck	1	6	500	272	1632	270.3734
Crane	1	6	250	112	672	111.3302
Dump Truck	1	6	25	7.6	45.6	7.554552
Excavator	1	6	175	112	672	111.3302
Off-Highway Trucks (pick-up trucks)	8	6	500	272	1632	270.3734
Off-Highway Trucks (pick-up trucks)	4	4	500	272	1088	180.249
Off-Highway Trucks (water trucks)	1	4	500	272	1088	180.249
Paver	1	3	120	69.2	207.6	34.39309
Roller	1	3	120	59.0	177	29.32359
Front End Loader	1	6	120	51.7	310.2	51.39083

Equipment Type	Number	Hour/Day Operation	Horsepower	CO2 Emission Factors (lbs/hr)	CO2 Emissions (lbs/day)	CO2 Emissions (metric tons/year)
Total					7524.40	1246.57
Gravity Sewer Line Reconstruction						
Dump Truck	1	6	25	7.6	45.6	7.554552
Excavator	1	6	175	112	672	111.3302
Forklifts	1	4	120	31.2	124.8	20.67562
Off-Highway Trucks (concrete pumper trucks)	1	6	500	272	1632	270.3734
Off-Highway Trucks (pick-up trucks)	12	6	500	272	1632	270.3734
Off-Highway Trucks (water truck)	1	4	500	272	1088	180.249
Paver	1	6	120	69.2	415.2	68.78618
Roller	1	6	120	59	354	58.64718
Tractors/Loaders/Backhoes	1	6	120	51.7	310.2	51.39083
Total					6273.80	1039.38

Source: SCAQMD. Off-Road Mobile Source Emission Factors Scenario Year 2007.

- b) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

No Impact – The Orange County Sanitation District (Sanitation District) does not have any specific plans, policies, nor regulations adopted for reducing the emissions of GHGs. SCAQMD has several programs available for reducing GHG emissions, including the Climate Change Policy, approved in 2008 and the Green Policy, approved in 2009. The Climate Change Policy was enacted for the purpose of assisting businesses and local government agencies with reducing carbon emissions, while the Green Policy guides SCAQMD decisions relative to reducing its own carbon emissions. The SCAQMD has adopted interim GHG significance thresholds of 10,000 metric tons per year for CO₂ equivalent. As shown in Tables 4-2 and 4-3 above, construction GHG emissions would not exceed this threshold. Therefore, the proposed project would not conflict with any applicable plan, policy, or regulation adopted for reducing the emissions of greenhouse gases.

As mentioned in Section 4.3, operational emissions would be limited to emissions associated with scheduled maintenance of the proposed facility and would not increase from existing levels as a result of the proposed Project. Operations of the proposed Project would not result in a

significant impact. Operational activities would not conflict with or obstruct implementation of the SCAQMD Air Quality Plan.

Mitigation Measures

The proposed Project would not result in a significant adverse impact to Greenhouse Gas Emissions. No mitigation measures are proposed.

4.8 Hazards and Hazardous Materials

Would the project:

- a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less Than Significant with Mitigation – The proposed Project would use construction materials consistent with existing local, state, and federal regulations. The proposed Project is anticipated to generate hazardous materials through the removal of asbestos-containing concrete by replacing an existing 12-inch, asbestos cement force main pipe with a 12-inch, high-density polyethylene pipe. Therefore, the proposed Project would require the implementation of mitigation measures (see HAZ 1–9) to ensure that any potential impacts from the asbestos removal are less than significant.

- b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Less Than Significant with Mitigation – The proposed Project would remove existing asbestos associated with the pump station, and could generate hazardous materials. Therefore, the proposed Project could create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment by the removal of the asbestos cement force main pipe and other asbestos-containing material, lead, or polychlorinated biphenyls that may be present in the pump station. Therefore, the proposed Project would require the implementation of mitigation measures (see below) to ensure that any potential impacts from the removal of asbestos-containing material and potential lead and polychlorinated biphenyls are less than significant.

In addition, there are two listed sites that pose a risk to the public:

- **Rockwell Industries, 4311 Jamboree Road** – This industrial facility treats and/or disposes of liquid or semisolid wastes. This facility is also registered as having a leaking underground storage tank (LUST). On-going monitoring and remediation is being conducted on site. This facility is located less than 1/8 mile from the project. Due to the distance this site is located

from the project and with on-going monitoring and remediation; this site poses a risk to the project and would require implementation of mitigation measures (see below) to ensure that any potential impacts are less than significant.

- **San Joaquin Landfill**, SE corner of MacArthur and Fairchild Road – According to EPA, Prior to 1954 the site was a burn site that was expanded to 129 acres and converted to a municipal solid waste disposal facility in 1959. Most waste materials disposed at the site have been identified as residential, commercial, demolition and agricultural wastes. No liquid or hazardous wastes are known to have been disposed. Refuse from the western portion of the site was excavated during the construction of Highway 73. On-going remediation is being conducted on site. Therefore, this site poses a risk to the project and would require implementation of mitigation measures (see below) to ensure that any potential impacts are less than significant.

Remedial activities may be required to ensure any potential impacts are less than significant.

- c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school?

No Impact – No schools are located within 0.25 mile of the proposed Project. The closest school is the California Pacific Charter School, located approximately 0.30 mile southwest of the proposed Project site. Therefore, the proposed Project would not result in a hazards-related impact on an existing or proposed school within 0.25 mile of the proposed Project site.

- d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

No Impact – The Project site is not included on the Department of Toxic Substances Control's Hazardous Waste and Substances List (Cortese List).

- e) For a project located within an airport land use plan or, where such a plan has not been adopted, within 2.0 miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?

No Impact – The proposed Project would be located approximately 1.3 miles southeast of John Wayne Airport and would rehabilitate and upgrade an existing pump station. Although the Project would result in the removal of asbestos-containing concrete, the construction and operation activities are relatively limited in scope and would not result in a safety hazard associated with an airport for people residing or working in the Project area.

- f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

No Impact – The proposed Project would not be located within the vicinity of a private airport. The proposed Project would not result in a safety hazard related to a private airstrip to people residing or working in the Project area.

- g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less Than Significant with Mitigation – During construction of the proposed Project, traffic delays within the project area may occur due to the structural modifications associated with this project ; however, implementation the Transportation/Traffic mitigation measures TT-1 through TT-7 (see Transportation/Traffic 4.16) would ensure that the project would not interfere with any emergency response or evacuation plans.

- h) Expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

No Impact – The proposed Project is not located near wildland areas or areas where wildlands are adjacent to urbanized areas. The construction and operation of the proposed Project is not anticipated to have an adverse impact related to the exposure of people or structures to a significant risk of loss, injury, or death involving wildland fires.

Mitigation Measures

The proposed Project would require the implementation of the following mitigation measures:

The following avoidance and minimization measures will reduce potential impacts related to hazardous wastes and materials during construction of the project.

- HAZ-1 Asbestos, lead-based paint, and polychlorinated biphenyl surveys for any structures that would be renovated or demolished as part of the project shall be conducted during the Plans, Specifications, and Estimates phase of the project by a certified consultant.
- HAZ-2 If analytical results indicate building materials contain asbestos, the contractor shall prepare an Asbestos Operations and Maintenance Plan in accordance with applicable regulations. The plan will address worker training and safety measures to be taken when disturbing asbestos-containing materials during abatement activities.
- HAZ-3 The contractor shall ensure that proper removal and disposal of asbestos-containing material is conducted by a licensed contractor registered with the California Occupational Safety and Health Administration for asbestos-related work, or by a licensed and certified asbestos abatement contractor

- HAZ-4 If the analytical results indicate that lead-based paint is present, the contractor shall ensure that demolition materials are handled and disposed of in accordance with applicable regulations.
- HAZ-5 Prior to construction, the contractor shall prepare a Materials Management Plan that identifies potential recognized environmental conditions, locations, extent of impact, proposed remediation work, waste management procedures, and avoidance measures, investigation measures, and a contingency plan for addressing unforeseen conditions. Documentation of completed waste profiles, manifest forms, and bill-of-lading forms for proper transportation and disposal of materials off-site will be maintained by the contractor. The plan shall include the following provisions:
- Characterization and handling of contaminated soils requiring off-site disposal,
 - Soils to be stockpiled for further characterization,
 - Process for identifying soils with waste concentrations below regulatory thresholds that can be reused without restriction,
 - Process for identifying and handling wastewater requiring off-site disposal and/or treatment, and
 - Procedures for handling asbestos-containing material potentially discovered during construction activities.
- HAZ-6 Prior to initiating construction activities, the contractor shall prepare a site-specific Health and Safety Plan that identifies key personnel and provides a summary risk assessment for workers, the community, and the environment. The Health and Safety Plan shall include an Air Monitoring Plan and Emergency Response Plan.
- HAZ-7 Prior to construction, the contractor shall prepare a Spill Prevention Control and Counter Measures Plan to ensure that construction best management practices are adequate for site conditions and to prevent discharge of any sediment or pollutants into any storm drains, and receiving waters.
- HAZ-8 Before construction, the contractor shall notify all utility companies to ensure that the locations of underground transmission lines and facilities are marked. In addition, Underground Service Alert shall be contacted at least two working days before subsurface excavation.
- HAZ-9 The contractor shall adhere to the requirements of SCAQMD during all construction activities.

4.9 Hydrology and Water Quality

Would the project:

- a) Violate any water quality standards or waste discharge requirements?

Less Than Significant Impact – Minor excavation would occur during construction of the proposed Project. Excavation would occur within the proposed Project site, public right-of-way and private property. The majority of these areas are paved. Groundwater in the Project area occurs approximately 50 feet below mean sea level (OCWD 2012) and is not anticipated to be encountered during construction of the proposed Project. In the event that groundwater is encountered during excavation, dewatering would occur; and the extracted water would be discharged to the sanitary sewer, which is part of the Sanitation District collection system, and would not affect water quality.

Construction staging would occur on the Project site, with the exception of temporary parking of vehicles on the adjacent roads. Any residual oil, grease, and other fuel products from equipment would be maintained and would not affect surface waters. Equipment would be inspected to prevent leaks and would be maintained as part of customary construction practices. Therefore, any residual oil, grease, and other fuel products from equipment would be negligible and would not affect surface or groundwater.

Because the proposed Project would disturb less than 1 acre of soil disturbance¹ (0.77 acre) a General Construction Stormwater National Pollutant Discharge Elimination System (NPDES) Permit and Stormwater Pollution Prevention Plan would not be required; however, the Sanitation District requires that a Stormwater Pollution Control Plan be developed for any construction site not covered by the General Construction Stormwater NPDES Permit. The Stormwater Pollution Control Plan addresses the implementation of best management practices (BMPs) for construction sites when a formal Stormwater Pollution Prevention Plan is not required. Additionally, construction activities would comply with the requirements of the applicable County of Orange Drainage Area Management Plan (DAMP) for public works construction projects, which includes details for management of stormwater throughout Orange County and compliance with the individual NPDES permit that regulates the municipal separate storm sewer system. All public works construction contracts are governed by "Standard Specifications for Public Works Construction". Section 7 of these standard specifications imposes specific construction practices, which are included within DAMP Appendix H as structural and nonstructural BMPs for public works construction. In general, the standard specifications require

¹ The total area of disturbance was determined by calculating the area of disturbance for each project component.

1) Pump station [35 feet X 85 feet = 2,400 square feet (0.06 acre)]

2) Force main [2,150 feet X 5 feet = 10,750 square feet (0.25 acre)]

3) Gravity sewer lines [4,000 feet X 5 feet = 20,000 square feet (0.46 acre)] (*includes both existing and replacement lines at 2,000 feet each)

4) Manhole [5 feet x 5 feet = 25 square feet (<0.001 acre)]

the Contractor to keep informed of, observe, and comply with state and federal laws and county and municipal ordinances and regulations.

Operation of the proposed Project would not affect surface or groundwater. Therefore, the proposed Project is anticipated to result in a less than significant impact related to a violation of any water quality standards or waste discharge requirements.

- b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of preexisting nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?

No Impact – Construction of the proposed Project would not result in a depletion of groundwater supplies, and operation of the proposed Project would not interfere with groundwater recharge. The proposed Project would not result in a significant adverse impact related to groundwater supply or recharge.

- c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on or off site?

No Impact – No natural surface bodies of water, including streams or other bodies of water, are present on the proposed Project site. Furthermore, the proposed Project would not substantially alter the existing drainage pattern of the site or area. Construction activities would be limited to the Project site and would not affect the course of a stream or river. Therefore, the proposed Project is not anticipated to alter the existing drainage pattern of the site and would not result in substantial erosion or siltation on site or off site.

- d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on site or off site?

No Impact – The proposed Project would not substantially alter the existing drainage pattern of the site or area. Construction activities would be limited to the Project site and would not affect the course of a stream or river. Therefore, the proposed Project would not alter the course of a stream or river and would not cause a substantial increase in the volume of runoff that would result in flooding on site or off site.

- e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

No Impact – The proposed Project would not create or contribute to runoff water that would exceed the capacity of existing or planned stormwater drainage systems. Construction activities would be limited to the Project site, and BMPs would be implemented to control erosion and

sedimentation of excavated soil from stormwater runoff. This would prevent erosion and sedimentation associated with stormwater from affecting surface waters. The proposed Project is not anticipated to result in a significant adverse impact related to polluted runoff or on the capacity of stormwater drainage systems.

- f) Otherwise substantially degrade water quality?

No Impact – Refer to Response 4.9.a, above, which addresses impacts to water quality. The proposed Project is not anticipated to substantially degrade water quality.

- g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?

No Impact – No housing development is associated with the proposed Project.

- h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?

No Impact – The proposed Project would rehabilitate and upgrade an existing pump station. Additionally, it would not include structures that would impede or redirect flood flows. Therefore, no impacts would be associated with the placement of structures that would impede or redirect flood flows within a 100-year flood hazard area.

- i) Expose people or structures to a significant risk of loss, injury, or death involving flooding, including flooding as a result of the failure of a levee or dam?

No Impact – No levee or dam is within the vicinity of the proposed Project. Therefore, no impacts would be associated with risk of loss, injury, or death involving flooding as a result of the failure of a levee or dam.

- j) Inundation by seiche, tsunami, or mudflow?

No Impact – Based on the location of the proposed Project site, the site is not likely to be inundated by a seiche, tsunami, or mudflow.

Mitigation Measures

The proposed Project would not result in significant adverse impacts to Hydrology and Water Quality. No mitigation measures are proposed.

4.10 Land Use and Planning

Would the project:

- a) Physically divide an established community?

No Impact – The proposed Project would rehabilitate and upgrade an existing pump station, and project implementation would take place on existing sites that are located on easements granted to the Sanitation District by various property owners. Therefore, the proposed Project would not physically divide an established community.

- b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to, the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?

No Impact – The proposed Project would occur on easements granted to the Sanitation District by various property owners. The proposed Project would not change existing land uses and would not conflict with existing general plan designations or zoning ordinances. Therefore, the proposed Project would not conflict with any applicable land use plan, policy, or regulation.

- c) Conflict with any applicable habitat conservation plan or natural community conservation plan?

No Impact – The proposed Project is not within an adopted habitat conservation plan or natural community conservation plan area. The proposed Project would not conflict with any applicable habitat conservation plan or natural community conservation plan.

Mitigation Measures

The proposed Project would not result in a significant adverse impact related to Land Use and Planning. No mitigation measures are proposed.

4.11 Mineral Resources

Would the project:

- a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

No Impact – The proposed Project would not use mineral resources and would not affect the availability of any known mineral resources. The proposed Project would not result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state.

- b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?

No Impact – The proposed Project site is not located in a delineated mineral resource area. The proposed Project would not result in the loss of availability of a locally important mineral resource recovery site.

Mitigation Measures

The proposed Project would not result in a significant adverse impact related to Mineral Resources. No mitigation measures are proposed.

4.12 Noise

Would the project result in:

- a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance or applicable standards of other agencies?

Less Than Significant Impact – Construction noise generated from equipment use would be the primary source of noise associated with the proposed Project. Construction would occur during permitted hours identified in the City of Newport Beach Building Code, and construction activities would comply with the City of Newport Beach Noise Ordinance. No construction activities would occur outside these hours or on federal holidays unless a temporary waiver is granted by an authorized representative. These same limitations would be extended to the trucks, vehicles, and equipment that are involved with material deliveries, loading, or transfer of materials, equipment service, and maintenance. Operation of the facility would result in noise from the following pump station sources: pumps, AC blowers, and HVAC building exhaust. Operation of the pumps would have a less than significant impact on noise levels because they will be installed in a below-grade dry well, which will adequately attenuate any noise from their operation. Both the AC and HVAC building exhaust blowers will be installed outside of the dry well. The new blowers are anticipated to operate more quietly than the existing blowers. Thus, the noise from operation of the pumps and blowers would be at or below the existing condition and have a less than significant impact on noise levels.

A noise study was conducted to assess the noise impacts from the operation of the pump station. The following conclusions were made: ambient noise levels are higher than the noise ordinances for Newport Beach primarily due to heavy traffic along MacArthur Boulevard; existing operational noise sources have no impact on outdoor ambient noise levels; and the design criteria is lower (more stringent) than existing ambient noise levels (Sanitation District 2006b).

The proposed Project would not result in the exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, and impacts would be less than significant.

- b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?

No Impact – Construction of the proposed Project would not require the substantial duration or amount of activities commonly known to produce excessive groundborne vibration or noise (e.g., pile driving). Additionally, the existing gravity sewer lines are located approximately six feet below the ground surface, which is not anticipated to result in the exposure of persons to or generation of excessive groundborne vibrations or groundborne noise levels, and impacts would be less than significant.

- c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?

Less Than Significant Impact – Refer to Response 4.12.a, above, which evaluates potential construction and operational noise impacts of the proposed Project. The proposed Project would rehabilitate and upgrade an existing pump station and would not result in a permanent increase in ambient noise from operation of the proposed Project. Therefore, a substantial permanent increase in ambient noise levels is not anticipated for the proposed Project site, and impacts would be less than significant.

- d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?

Less Than Significant Impact – Refer to Response 4.12.a above.

- e) For a project located within an airport land use plan or, where such a plan has not been adopted, within 2.0 miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

No Impact – The proposed Project would be located approximately 1.3 miles southeast of John Wayne Airport; however, the proposed Project would rehabilitate and upgrade an existing pump station and would not have any effect associated with an airport or people residing or working in the Project area. Therefore, the proposed Project would not result in the exposure of people residing or working in the Project area to excessive noise levels.

- f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?

No Impact – The proposed Project would not be located within the vicinity of a private airstrip. Therefore, the proposed Project would not expose people residing or working in the Project area to excessive noise levels.

Mitigation Measures

The proposed Project would not result in a significant adverse impact related to Noise. No mitigation measures are proposed.

4.13 Population and Housing

Would the project:

- a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

No Impact – The proposed Project would rehabilitate and upgrade an existing pump station, which includes the installation of larger pumps to accommodate current and future flows, but would not directly or indirectly induce substantial population growth in the area. Therefore, the proposed Project would not result in an impact related to inducing population growth.

- b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?

No Impact – The proposed Project would have no impact associated with displacing existing housing or necessitating the construction of replacement housing.

- c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?

No Impact – The proposed Project would have no impact associated with displacing people or necessitating the construction of replacement housing.

Mitigation Measures

The proposed Project would not result in a significant adverse impact related to Population and Housing. No mitigation measures are proposed.

4.14 Public Services

Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:

- Fire protection?

- Police protection?
- Schools?
- Parks?
- Other public facilities?

No Impact – The proposed Project would rehabilitate and upgrade an existing pump station and would not result in an adverse impact or additional need for fire protection, police protection, schools, parks, or other public facilities. Also, refer to Response 4.16.e).

Mitigation Measures

The proposed Project would not result in a significant adverse impact related to Public Services. No mitigation measures are proposed.

4.15 Recreation

- a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

No Impact – The proposed Project would not increase the use of parks or other recreational facilities such that substantial physical deterioration of the facility would occur or would be accelerated. The proposed Project would have no impact on the use of existing neighborhood and regional parks or other recreational facilities.

- b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

No Impact – The proposed Project does not include recreational facilities and would not require the construction or expansion of recreational facilities. The proposed Project would not have an adverse physical effect on the environment related to recreational facilities.

Mitigation Measures

The proposed Project would not result in a significant adverse impact related to Recreation. Therefore, no mitigation measures are proposed.

4.16 Transportation/Traffic

Would the project:

- a) Conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to, intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?

Less Than Significant Impact – The proposed Project site is located on MacArthur Boulevard in the City of Newport Beach. Access to the pump station, force main, gravity sewer line along MacArthur Boulevard, and modification of the manhole located at the intersection of Birch Street and MacArthur Boulevard, would occur using MacArthur Boulevard. Access to the other gravity sewer line between MacArthur Boulevard and Jamboree Road would occur using MacArthur Boulevard and Jamboree Road, as well as the parking lot in between them.

One lane of traffic along MacArthur Boulevard would be closed during the rehabilitation of the pump station and removal and replacement of the force main. One to two lanes of traffic along MacArthur Boulevard and Jamboree Road would be closed during the reconstruction of the gravity sewer line. And the modification of the manhole would require the closure of one lane of traffic along Birch Street. However, all of the roadways would remain open at all times. Traffic control could include flagmen and/or signs to direct traffic. During hours when construction does not occur, all lanes of traffic would be open. Nighttime construction may occur, when needed, to reduce any impacts to traffic along MacArthur Boulevard, Jamboree Road, and Birch Street. Deliveries and vehicle parking would be coordinated to minimize impacts to local traffic. Although a small increase in traffic at the proposed Project sites could result during construction from the transport of workers or materials to the site, the proposed Project is not anticipated to result in an adverse impact related to traffic. No increase in traffic would be related to operation at the proposed facility.

- b) Conflict with an applicable congestion management program, including, but not limited to, level of service standards and travel demand measures or other standards established by the county congestion management agency for designated roads or highways?

No Impact – The minimal increase in traffic at the proposed Project area that could result from the transport of workers and materials to the site during construction is not expected to result in change to the existing level of service. The proposed Project would not conflict with applicable congestion management programs, plans and policies.

- c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?

No Impact – The proposed Project would have no impact on air traffic patterns.

- d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

No Impact – The proposed Project would not increase hazards due to design features or incompatible uses.

e) Result in inadequate emergency access?

Less Than Significant with Mitigation – Adequate emergency access will be maintained throughout the duration of the project construction. Although construction of the proposed Project could cause traffic delays in the project area which could delay emergency services, the implementation of Transportation/Traffic mitigation measures (TT-1 through TT-5) would ensure that any potential impacts to emergency access would be less than significant. Therefore, the proposed Project is not anticipated to result in a significant adverse impact related to emergency access.

f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities or otherwise decrease the performance or safety of such facilities?

Less Than Significant with Mitigation –The proposed Project may impact the Orange County Transportation Authority bus route along MacArthur Boulevard, but access to the transit system will be maintained at all times. Impacts may include the temporary re-location of the MacArthur Boulevard/Jamboree Road stop and delays due to traffic. However, the implementation of Transportation/Traffic mitigation measures (TT-1 through TT-5) would ensure that any potential impacts to the transit system would be less than significant.

Mitigation Measures

Implementation of the following mitigation measures will reduce potential impacts related to transportation and traffic during construction of the project to less than significant:

- TT-1 A traffic control plan shall be prepared by a qualified professional engineer as required prior to the construction phase of the Project.
- TT-2 The traffic control plan shall consider the ability of alternative routes to carry additional traffic and shall identify the least disruptive hours of construction; site truck access routes; and the type and location of warning signs, lights, and other traffic control devices. Consideration shall be given to maintaining access to commercial parking lots and sidewalks to the greatest extent feasible.
- TT-3 The traffic control plan shall comply with the City of Newport Beach’s Municipal Code Title 12 (vehicles and traffic) to minimize any traffic and pedestrian hazards that exist during project construction.

- TT-4 Public roadways shall be restored to their existing condition after Project construction is completed.
- TT-5 Emergency service purveyors shall be contacted and consulted to preclude the creation of unnecessary traffic bottlenecks that shall seriously impede response times. Additionally, measures to provide an adequate level of access to private properties shall be maintained to allow delivery of emergency services.

4.17 Utilities and Service Systems

Would the project:

- a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?

No Impact – The proposed Project would replace the existing pumps with new pumps and repair or replace existing sewer lines to accommodate existing and projected flow. The proposed Project would not exceed the existing wastewater treatment requirements of the Regional Water Quality Control Board.

- b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

No Impact – The proposed Project would replace the existing pumps with new pumps to accommodate existing and projected flows. The proposed Project would not require or result in the construction of new water or wastewater treatment facilities or in the expansion of existing facilities.

- c) Require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

No Impact – No new stormwater drainage facilities or expansion of existing facilities would result or be required as part of the proposed Project.

- d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?

No Impact – Construction and operation of the proposed Project would not require the provision of new water supplies. Water entitlements and resources would not be impacted by the proposed Project.

- e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

No Impact – The proposed Project would replace the existing pumps with new pumps to accommodate existing and projected flows and would add emergency standby capacity. The proposed Project is not anticipated to have a significant effect on the wastewater treatment capacity of the Sanitation District.

- f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?

No Impact – Small amounts of debris or solid waste could be generated during construction of the proposed Project and would be transported to an approved solid waste disposal facility. Based on the small quantity of material, the proposed Project is not expected to affect the capacity of existing landfills. Solid waste generated by the removal of the force main, which includes asbestos-containing concrete, will be disposed of properly to ensure that any potential impacts from the removal of asbestos-containing material are less than significant. Refer to Section 0 mitigation measure HAZ-3, which requires the proper disposal of hazardous materials by a licensed contractor registered with the California Occupational Safety and Health Administration for asbestos-related work, or by a licensed and certified asbestos abatement contractor. The proposed Project would not generate solid waste following completion of construction.

- g) Comply with federal, state, and local statutes and regulations related to solid waste?

No Impact – Solid waste produced by the proposed Project would be disposed at a properly permitted facility in accordance with federal and state laws.

Mitigation Measures

The proposed Project would not result in a significant adverse impact related to Utilities and Service Systems. No mitigation measures are necessary.

4.18 Mandatory Findings of Significance

- a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?

No Impact – The proposed Project would rehabilitate and upgrade an existing pump station and replace existing sewer lines located in a developed area. The proposed Project would not result in a significant adverse impact on the environment, including biological and cultural resources, nor would the proposed Project eliminate important examples of major periods of California history or prehistory.

- b) Does the project have impacts that are individually limited but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

No Impact – The proposed Project would rehabilitate and upgrade an existing pump station and replace existing sewer lines. The proposed Project would not result in any significant adverse cumulative impacts.

- c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Less Than Significant with Mitigation – The proposed Project could have environmental effects that would cause substantial adverse effects on human beings, either directly or indirectly. However, these impacts would be reduced to a less than significant level with the implementation of mitigation measures.

5.0 Preparers and Contributors

Orange County Sanitation District

Daisy Covarrubias – Senior Staff Analyst

Wendy Smith –Engineer

Jacobs

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Gary Fink, RPA – Senior Archaeologist

Paige Peyton, RPA – Senior Cultural Resources Specialist

Phill Peters – Environmental Planner

Dana Ragusa – Environmental Planner, Air Quality, Noise and Hazardous Materials Specialist

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Appendix A

Construction Emission Calculations

EMISSIONS FROM THE MACARTHUR PUMP STATION REHABILITATION PROJECT

Table Sum A: Maximum Daily Construction Emissions by Phase (premitigation)

Attribute	Emissions						
	CO (lb/day)	ROG* (lb/day)	NO _x (lb/day)	SO _x (lb/day)	Combustion PM ₁₀ (lb/day)	Fugitive PM ₁₀ (lb/day)	Total PM ₁₀ (lb/day)
Excavation and Installation	20.95	5.48	31.51	5.31	1.56	75.97	77.53
SCAQMD Threshold (lb/day)	550	75	100	150	--	--	150
Significant	No	No	No	No			No

*ROG=Reactive Organic Gasses

Table Sum B: Maximum Daily Operational Emissions

Attribute	Emissions						
	CO (lb/day)	ROG (lb/day)	NO _x (lb/day)	SO _x (lb/day)	Combustion PM ₁₀ (lb/day)	Fugitive PM ₁₀ (lb/day)	Total PM ₁₀ (lb/day)
Activity	Operational emissions will not increase from existing levels due to the rehabilitation project.						
Maximum Daily Emissions	550	55	55	150	--	--	150
SCAQMD Threshold (lb/day)	No	No	No	No			No
Significant							

Table 1-1: Heavy Construction Equipment Exhaust Emission Factors

Equipment Type	Fuel	CO (lb/day)	ROG (lb/day)	NOx (lb/day)	SOx (lb/day)	PM ₁₀ (lb/hr)
Front End Loader	Diesel	0.425	0.099	1.111	0.221	0.063
Excavator	Diesel	0.472	0.097	1.138	0.243	0.060
Crane	Diesel	0.355	0.086	1.023	0.196	0.052
Concrete Truck (other Const. Equip.)	Diesel	0.561	0.118	1.380	0.223	0.065

Source: SCAQMD, Off-Road Mobile Source Emission Factors Scenario Year 2007.

Table 1-2: On-Road Mobile Emission Factors from California ARB EMFAC2002 Scenario Year: 2007 -- Model Years: 1965 to 2007

Vehicle Type	CO Emissions Factor (lb/mile)	ROG Emission Factor (lb/mile)	NOx Emissions (lb/mile)	SOx Emissions (lb/mile)	PM ₁₀ Emissions (lb/mile)
Construction Workers Commuting	0.01282	0.001361	0.001383	0.000009	0.00008
Light-duty Trucks	0.017455	0.024978	0.002608	0.000033	0.000440
Heavy Diesel Trucks	0.005520326	0.001226518	0.035634629	0.0000457	0.000644071

Table 1-3: Fugitive Emission Factors for Construction Activities

Activity	PM ₁₀ Emissions (lbs/ton)
Storage Pile Filling/Truck Dumping	0.009075

Source: SCAQMD CEQA Air Quality Handbook, November 1993, Table 9-9

Table 1-4: Fugitive Emission Factors for On-Road Trucks and Employee Vehicles

Source Type	Emission Factor (lb/vmt)
Passenger Vehicle/On Paved Roadways	0.018
Trucks on Paved Roadways	0.214
Light Duty Trucks on Unpaved Roads*	1.45

Source: SCAQMD CEQA Air Quality Handbook, November 1993, Table A9-9 & Table A9-9C

* Emissions calculated from SCAQMD CEQA Air Quality Handbook, November 1993, Table A9-9-D, G=14, H=15, J=4 tons, I=4 and K=10.

VMT=vehicle miles traveled

HEAVY CONSTRUCTION EQUIPMENT COMBUSTION CALCULATIONS BY PHASE

Table 2-1: Excavation and Installation

Equipment Type	Number	Fuel	Hour/day Operation	CO (lb/day)	ROG (lb/day)	NOx (lb/day)	SOx (lb/day)	Combustion PM ₁₀ (lb/hr)
Front End Loader	1	Diesel	6	2.6	0.6	6.7	1.3	0.4
Excavator	1	Diesel	6	2.8	0.6	6.8	1.5	0.4
Crane	1	Diesel	6	2.13	0.52	6.14	1.18	0.31
Concrete Truck	1	Diesel	6	3.37	0.71	8.28	1.34	0.39
Totals				10.90	2.40	27.90	5.30	1.40

Source: SCAQMD. Off-Road Mobile Source Emission Factors Scenario Year 2007.

VEHICLE EMISSIONS

Table 3-1: Excavation and Installation

Source	Parameters			Peak Day Emissions, lbs/day					
	Number of Vehicles	Total Number of Trips	Distance Traveled per Trip	CO Emissions	ROG Emissions	NOx Emissions	SOx Emissions	Combustion PM ₁₀ Emissions	Fugitive PM ₁₀ Emissions
Construction Workers Commuting	16	32	20	8.20	0.87	0.89	0.01	0.05	11.52
Light-duty Trucks Onsite	5	5	5	0.44	0.62	0.07	0.00	0.01	36.25
Daily Delivery Trucks	1	3	20	1.05	1.50	0.16	0.00	0.03	12.84
Dump Trucks	1	7	10	0.39	0.09	2.49	0.00	0.03	14.98
Totals				10.07	3.08	3.60	0.01	0.12	75.59

Emission calculations assume that all construction phases overlap.

Worker commute is assumed to be 20 miles per trip.

Daily Delivery Truck trip distance is assumed to be 20 miles per trip.

Fugitive PM₁₀ is from paved roads for commuters, dump trucks, and delivery trucks and unpaved road for onsite trucks.

Table 4-1: Soil Hauling and Pile Filling by Phase

Phase	Cubic Yards Exported	Tons Exported	Average Tons Exported per Day
Excavation and Installation	50.0	42.3	42.3

Calculation assumes a soil density of 1.45 g/cubic cm

Calculation assumes that all soil hauling occurs during a single day (worst case)

Table 4-2: Soil Hauling and Pile Filling Daily PM₁₀ Emissions by Phase

Phase	Emissions (lb/day)
Excavation	0.4

Appendix B
Mitigation Monitoring and Reporting Plan

MITIGATION MONITORING AND REPORTING PLAN

Mitigation Measures	Timing	Implementing Entity	Monitoring Entity
Section 4.18 Hazards and Hazardous Materials			
Mitigation Measure HAZ-1: Asbestos, lead-based paint, and polychlorinated biphenyl surveys for any structures that would be renovated or demolished as part of the project shall be conducted during the Plans, Specifications, and Estimates phase of the project by a certified consultant.	Before Construction	Contractor	OCSD
Mitigation Measure HAZ-2: If analytical results indicate building materials contain asbestos, the contractor shall prepare an Asbestos Operations and Maintenance Plan in accordance with applicable regulations. The plan will address worker training and safety measures to be taken when disturbing asbestos-containing materials during abatement activities.	Before Construction	Contractor	OCSD
Mitigation Measure HAZ-3: The contractor shall ensure that proper removal and disposal of asbestos-containing material is conducted by a licensed contractor registered with the California Occupational Safety and Health Administration for asbestos-related work, or by a licensed and certified asbestos abatement contractor.	During Construction	Contractor	OCSD
Mitigation Measure HAZ-4: If the analytical results indicate that lead-based paint is present, the contractor shall ensure that demolition materials are handled and disposed of in accordance with applicable regulations.	Before Construction	Contractor	OCSD

Mitigation Measures	Timing	Implementing Entity	Monitoring Entity
<p>Mitigation Measure HAZ-5: Prior to construction, the contractor shall prepare a Materials Management Plan that identifies potential recognized environmental conditions, locations, extent of impact, proposed remediation work, waste management procedures, and avoidance measures, investigation measures, and a contingency plan for addressing unforeseen conditions.</p> <p>Documentation of completed waste profiles, manifest forms, and bill-of-lading forms for proper transportation and disposal of materials off-site will be maintained by the contractor. The plan shall include the following provisions:</p> <ul style="list-style-type: none"> • Characterization and handling of contaminated soils requiring off-site disposal, • Soils to be stockpiled for further characterization, • Process for identifying soils with waste concentrations below regulatory thresholds that can be reused without restriction, • Process for identifying and handling wastewater requiring off-site disposal and/or treatment, and • Procedures for handling asbestos-containing material potentially discovered during construction activities. 	Before Construction	Contractor	OCSD
<p>Mitigation Measure HAZ-6: Prior to initiating construction activities, the contractor shall prepare a site-specific Health and Safety Plan that identifies key personnel and provides a summary risk assessment for workers, the community, and the environment. The Health and Safety Plan shall include an Air Monitoring Plan and Emergency Response Plan.</p>	Before Construction	Contractor	OCSD
<p>Mitigation Measure HAZ-7: Prior to construction, the contractor shall prepare a Spill Prevention Control and Counter Measures Plan to ensure that construction best management practices are adequate for site conditions and to prevent discharge of any sediment or pollutants into any storm drains, and receiving waters.</p>	Before Construction	Contractor	OCSD

Mitigation Measures	Timing	Implementing Entity	Monitoring Entity
<p>Mitigation Measure HAZ-8: Before construction, the contractor shall notify all utility companies to ensure that the locations of underground transmission lines and facilities are marked. In addition, Underground Service Alert shall be contacted at least two working days before subsurface excavation.</p>	Before Construction	Contractor	OCSD
<p>Mitigation Measure HAZ-9: The contractor shall adhere to the requirements of SCAQMD during all construction activities.</p>	During Construction	Contractor	OCSD
Section 4.16: Traffic/Transportation			
<p>Mitigation Measure TT-1: A traffic control plan shall be prepared by a qualified professional engineer as required prior to the construction phase of the Project.</p>	Before Construction	Contractor	OCSD
<p>Mitigation Measure TT-2: The traffic control plan shall consider the ability of alternative routes to carry additional traffic and shall identify the least disruptive hours of construction; site truck access routes; and the type and location of warning signs, lights, and other traffic control devices. Consideration shall be given to maintaining access to commercial parking lots and sidewalks to the greatest extent feasible.</p>	Before Construction	Contractor	OCSD
<p>Mitigation Measure TT-3: The traffic control plan shall comply with the City of Newport Beach's Municipal Code Title 12 (vehicles and traffic) to minimize any traffic and pedestrian hazards that exist during project construction.</p>	Before Construction	Contractor	OCSD
<p>Mitigation Measure TT-4: Public roadways shall be restored to their existing condition after Project construction is completed.</p>	After Construction	Contractor	OCSD
<p>Mitigation Measure TT-5: Emergency service purveyors shall be contacted and consulted to preclude the creation of unnecessary traffic bottlenecks that shall seriously impede response times. Additionally, measures to provide an adequate level of access to private properties shall be maintained to allow delivery of emergency services.</p>	Before Construction	Contractor	OCSD

Appendix C
Comment Letters and
Response to Comments

From: Seiffert, Mary [<mailto:Mary.Celmer-Seiffert@yum.com>]

Sent: Tuesday, December 02, 2014 10:11 AM

To: Covarrubias, Daisy

Subject: MacArthur Pump Station Rehabilitation Project - Taco Bell #4704 @ 4101 Jamboree Rd.

Daisy,

1 | Per our conversation this morning, I am in the Property Management Department with Taco Bell Corp. I received your "Notice of Intent to Adopt An Initial Study/Mitigated Negative Declaration" for the MacArthur Pump Station Rehabilitation Project. Reviewing the Project Area Map, it looks like the Gravity Sewer Line, running between MacArthur Blvd and Jamboree Rd, is located near our Taco Bell #4704 at 4101 Jamboree Rd. If this work has any impact on #4704, then I will be your contact person at Taco Bell.

If you would please put me down for any future communications in regards to this project.

Thank you

Mary Seiffert
Property Manager/ADA Compliance
Taco Bell Corp. / Legal Department
1 Glen Bell Way
Irvine, CA 92618
ph: 949-863-4315

Serving:
Anaheim
Brea
Buena Park
Cypress
Fountain Valley
Fullerton
Garden Grove
Huntington Beach
Irvine
La Habra
La Palma
Los Alamitos
Newport Beach
Orange
Placentia
Santa Ana
Seal Beach
Stanton
Tustin
Villa Park
County of Orange
Costa Mesa
Sanitary District
Midway City
Sanitary District
Irvine Ranch
Water District
Yorba Linda
Water District



Orange County Sanitation District

10844 Ellis Avenue, Fountain Valley, CA 92708
714.962.2411 • www.ocsewers.com

January 22, 2015

Ms. Mary Seiffert
Property Manager
Taco Bell Corp. / Legal Department
1 Glen Bell Way
Irvine, CA 92618

Re: Response to Comment Letter Dated December 2, 2014
Project Name: MacArthur Pump Station Rehabilitation Project

Dear Ms. Seiffert,

The Orange County Sanitation District (Sanitation District) appreciates the comments provided in your letter dated December 2, 2014 regarding the MacArthur Pump Station Rehabilitation Project. If the project will have any impact on Taco Bell #4704, we will be in contact with you. If you have any questions, please contact me at 714-593-7119. Thank you for your assistance.

Sincerely,

Daisy Covarrubias, Senior Staff Analyst
Orange County Sanitation District

To protect public health and the environment by providing effective wastewater collection, treatment, and recycling.

DEPARTMENT OF TRANSPORTATION

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 3347 MICHELSON DRIVE, SUITE 100
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 FAX (949) 724-2019
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December 1, 2014

Ms. Daisy Covarrubias
 Orange County Sanitation District
 10844 Ellis Avenue
 Fountain Valley, CA, 92708

IGR/CEQA
 SCH# 2006031042
 Log #: 1713 A & B
 SR-73

Dear Ms. Covarrubias:

Thank you for the opportunity to review and comment on the **Draft Initial Study and Mitigated Negative Declaration on the MacArthur Pump Station Rehabilitation Project**. The Orange County Sanitation District proposes to upgrade the existing pump station. The pump station rehabilitation was previously approved in May of 2006 and since that time replacing 2,130 feet of existing force main with high density polyethylene pipe, modifying an existing manhole, and reconstructing 2,000 feet of upstream sewer and manholes has been added. The project site is located at 4129 MacArthur Boulevard in the City of Newport Beach. The nearest state transportation facility to the project site is SR-73

The Department of Transportation (Department) is a commenting agency on this project and has the following comment:

- 2a |
 2b |
 2c |
1. Coordination of this project with other construction activities on SR-73 may be needed. Any hauling of materials should not occur during A.M and P.M peak periods of travel on State facilities during demolition and/or construction of the proposed project. All vehicle loads should be covered so that materials do not blow over or onto the Department's Right-of-Way.

Please continue to keep us informed of this project and any future developments that could potentially impact State transportation facilities. If you have any questions or need to contact us, please do not hesitate to call Maryam Molavi at (949) 724-2241.

Sincerely,

MAUREEN EL HARAQUE
 Branch Chief, Regional-Community-Transit Planning
 District 12

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Orange County Sanitation District

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January 22, 2015

Ms. Maureen El Harake, District 12 Branch Chief
California Department of Transportation
3347 Michelson Drive, Suite 100
Irvine, CA 92612

Re: Response to Comment Letter Dated December 1, 2014
Project Name: MacArthur Pump Station Rehabilitation Project

Dear Ms. El Harake,

The Orange County Sanitation District (Sanitation District) appreciates the comments provided by the California Department of Transportation in your letter dated December 1, 2014 regarding the MacArthur Pump Station Rehabilitation Project.

The letter identifies several areas of concern, as summarized below in italics, immediately followed by the Sanitation District's response.

Comment 2a

- *Coordination of the project with other projects along SR 73 may be needed.*

The Sanitation District will coordinate with Caltrans on this project and other projects along SR 73, as needed.

Comment 2b

- *Any hauling materials shall not occur between AM and PM peak travel periods on state facilities during demolition or construction.*

The hauling of materials during project construction shall not occur on state facilities during AM and PM peak travel periods.

Comment 2c

- *All vehicle loads shall be covered so that materials do not blow over or onto the Department's right-of-way*

The contractor shall cover vehicle loads containing materials that could blow over or onto Caltrans' right-of-way during transport.

To protect public health and the environment by providing effective wastewater collection, treatment, and recycling.



In summary, we appreciate the comments provided by the California Department of Transportation, trust that this letter fully responds to them, and are available to discuss any of these issues further. If you have any questions, please contact me at 714-593-7119. Thank you for your assistance.

Sincerely,

Daisy Covarrubias, Senior Staff Analyst
Orange County Sanitation District



IRVINE RANCH WATER DISTRICT

15600 Sand Canyon Ave., P.O. Box 57000, Irvine, CA 92619-7000 (949) 453-5300

December 18, 2014

Ms. Daisy Covarrubias
Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, CA 92708

Re: IS/MND MacArthur Pump Station Rehabilitation Project

Dear Ms. Covarrubias:

Irvine Ranch Water District (IRWD) has received and reviewed the Notice of Intent to adopt an Initial Study/Mitigated Negative Declaration (IS/MND) for the MacArthur Pump Station Rehabilitation Project. IRWD offers the following comments on the IS/MND.

- 3a | The proposed project should consider existing and future redevelopment projects that are currently being considered in the areas tributary to this lift station. IRWD recommends OCSD review the IBC SAMP, other pertinent information and consider upsizing the existing facilities to support this proposed project. In February 2008, IRWD completed an Irvine Business Complex (IBC) Sub-Area Master Plan (SAMP) that identified redevelopment projects planned at that time in the IBC area, portions of which are tributary to the MacArthur Pump Station. Since that time, many other projects in this area have been proposed. If you have not already done so, the City of Irvine and the City of Newport Beach should be contacted to obtain additional redevelopment planning information. OCSD should also contact Michael Hoolihan at (949) 453-5553 or Eric Akiyoshi at (949) 453-5552 to obtain a copy of the 2008 Irvine Business Complex Sub-Area Master Plan.
- 3b |

IRWD appreciates the opportunity to review and comment on the IS/MND for the MacArthur Pump Station Rehabilitation Project. If you have any questions or require additional information, please contact the undersigned or Jo Ann Corey, Engineering Technician III, at (949) 453-5326.

Sincerely,

Fiona Sanchez
Director of Water Resources

cc: Michael Hoolihan, IRWD
Eric Akiyoshi, IRWD
Jo Ann Corey, IRWD

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January 22, 2015

Fiona Sanchez
Irvine Ranch Water District
15600 San Canyon Ave.
P.O. Box 57000
Irvine, CA 92619

Re: Response to Comment Letter Dated December 18, 2014
Project Name: MacArthur Pump Station Rehabilitation Project

Dear Ms. Sanchez,

The Orange County Sanitation District (Sanitation District) appreciates the comments provided by the Irvine Ranch Water District in your letter dated December 18, 2014 regarding the MacArthur Pump Station Rehabilitation Project (Project).

The letter identifies several areas of concern, as summarized below in italics, immediately followed by the Sanitation District's response.

Comment 3a

- *The proposed project should consider existing and future development projects that are currently being considered in the areas tributary to this lift station. IRWD recommends OCSD review the Irvine Business Complex Sub Area Master Plan that identified redevelopment projects planned at that time in the IBC area, portions of which are tributary to the MacArthur Pump Station. Since that time, many other projects in this area have been proposed.*

The Sanitation District will consult the Irvine Business Complex Sub Area Master Plan to determine the extent to which future development in the area may increase the flows to the MacArthur Pump Station. As mentioned in the Initial Study, mechanical improvements for the proposed Project would include the replacement of existing pumps with new pumps, to accommodate existing and projected flows. Additionally, a detailed hydraulic analysis will be conducted during I design to ensure that the pump station and upstream gravity sewers are sized correctly to accommodate future needs.

To protect public health and the environment by providing effective wastewater collection, treatment, and recycling.



Comment 3b

- *If you haven't already done so, the City of Irvine and the City of Newport Beach should be contacted to obtain additional redevelopment planning information. OCSD should also contact Michael Hoolihan at (949) 453-5553 or Eric Akiyoshi at (949) 453-5552 to obtain a copy of the 2008 Irvine Business Complex Sub Area Master Plan.*

The Sanitation District will coordinate with the cities of Irvine and Newport Beach to obtain redevelopment planning information.

In summary, we appreciate the comments provided by the Irvine Ranch Water District, trust that this letter fully responds to them, and are available to discuss any of these issues further. If you have any questions, please contact me at 714-593-7119. Thank you for your assistance.

Sincerely,

Daisy Covarrubias, Senior Staff Analyst
Orange County Sanitation District

From: Alford, Patrick [<mailto:PAIford@newportbeachca.gov>]

Sent: Friday, December 19, 2014 10:53 AM

To: Covarrubias, Daisy

Subject: MacArthur Pump Station Rehabilitation Project

Dear Ms. Covarrubias,

Thank you for the opportunity to comment on the IS/MND for the MacArthur Pump Station Rehabilitation Project. The City of Newport Beach only has the following comment:

4a | The project will require an encroachment permit for the work in addition to the Temporary Street
4b | Closure Permit mentioned in the MND. Also, Jamboree is a Moratorium Street (newly paved street with
4c | no cutting permitted); so any damage to the street will require extensive street repair. Depending on
the extent of the work on Jamboree, permits from the City of Irvine maybe required (TC and
excavation).

Patrick J. Alford | Planning Program Manager
City of Newport Beach | Community Development Department | Planning Division
100 Civic Center Drive | Newport Beach, CA 92660
(949) 644-3235 | (949) 644-3229 | palford@newportbeachca.gov

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January 22, 2015

Mr. Patrick J. Alford, Planning Program Manager
 City of Newport Beach
 Community Development Department, Planning Division
 100 Civic Center Drive
 Newport Beach, CA 92660

Re: Response to Comment Letter Dated December 19, 2014
 Project Name: MacArthur Pump Station Rehabilitation Project

Dear Mr. Patrick Alford,

The Orange County Sanitation District (Sanitation District) appreciates the comments provided by the City of Newport Beach in your letter dated December 19, 2014 regarding the MacArthur Pump Station Rehabilitation Project (Project).

The letter identifies several areas of concern, as summarized below in italics, immediately followed by the Sanitation District's response.

Comment 4a

- *The project will require an encroachment permit for the work in addition to the Temporary Street Closure Permit mentioned in the MND.*

The Sanitation District will coordinate with the City of Newport Beach and obtain an encroachment permit prior to construction of the Project.

Comment 4b

- *Also, Jamboree is a Moratorium Street (newly paved street with no cutting permitted); so any damage to the street will require extensive street repair.*

We understand the ramifications of cutting pavement on Jamboree Road and that extensive street repair may be required.



To protect public health and the environment by providing effective wastewater collection, treatment, and recycling.



Comment 4 c

- *Depending on the extent of the work on Jamboree, permits from the City of Irvine maybe required (TC and excavation).*

The Sanitation District will coordinate with the City of Irvine to determine the need for any permits. If temporary construction and/or excavation permits are required, they will be obtained prior to construction.

In summary, we appreciate the comments provided by the City of Newport Beach, trust that this letter fully responds to them, and are available to discuss any of these issues further. If you have any questions, please contact me at 714-593-7119. Thank you for your assistance.

Sincerely,

Daisy Covarrubias, Senior Staff Analyst
Orange County Sanitation District

ORANGE COUNTY SANITATION DISTRICT

Agenda

Terminology Glossary

Glossary of Terms and Abbreviations

AQMD	Air Quality Management District
ASCE	American Society of Civil Engineers
BOD	Biochemical Oxygen Demand
CARB	California Air Resources Board
CASA	California Association of Sanitation Agencies
CCTV	Closed Circuit Television
CEQA	California Environmental Quality Act
CRWQCB	California Regional Water Quality Control Board
CWA	Clean Water Act
CWEA	California Water Environment Association
EIR	Environmental Impact Report
EMT	Executive Management Team
EPA	U.S. Environmental Protection Agency
FOG	Fats, Oils, and Grease
FSSD	Facilities Support Services Department
gpd	Gallons per day
GWR System	Groundwater Replenishment System (also called GWRS)
ICS	Incident Command System
IERP	Integrated Emergency Control Plan
LOS	Level of Service
MGD	Million gallons per day
NACWA	National Association of Clean Water Agencies
NPDES	National Pollutant Discharge Elimination System
NWRI	National Water Research Institute
O&M	Operations and Maintenance
OCCOG	Orange County Council of Governments
OCHCA	Orange County Health Care Agency
OCSD	Orange County Sanitation District
OCWD	Orange County Water District
OOBS	Ocean Outfall Booster Station
OSHA	Occupational Safety and Health Administration
POTW	Publicly Owned Treatment Works
ppm	Parts per million
RFP	Request For Proposal
RWQCB	Regional Water Quality Control Board
SARFPA	Santa Ana River Flood Protection Agency

Glossary of Terms and Abbreviations

SARI	Santa Ana River Inceptor
SARWQCB	Santa Ana Regional Water Quality Control Board
SAWPA	Santa Ana Watershed Project Authority
SCADA	Supervisory Control and Data Acquisition system
SCAP	Southern California Alliance of Publicly Owned Treatment Works
SCAQMD	South Coast Air Quality Management District
SOCWA	South Orange County Wastewater Authority
SSMP	Sanitary Sewer Management Plan
SSO	Sanitary Sewer Overflow
SWRCB	State Water Resources Control Board
TDS	Total Dissolved Solids
TMDL	Total Maximum Daily Load
TSS	Total Suspended Solids
WDR	Waste Discharge Requirements
WEF	Water Environment Federation
WERF	Water Environment Research Foundation

Activated-sludge process – A secondary biological wastewater treatment process where bacteria reproduce at a high rate with the introduction of excess air or oxygen, and consume dissolved nutrients in the wastewater.

Benthos – The community of organisms, such as sea stars, worms and shrimp, which live on, in, or near the seabed, also know as the benthic zone.

Biochemical Oxygen Demand (BOD) – The amount of oxygen used when organic matter undergoes decomposition by microorganisms. Testing for BOD is done to assess the amount of organic matter in water.

Biosolids – Biosolids are nutrient rich organic and highly treated solid materials produced by the wastewater treatment process. This high-quality product can be recycled as a soil amendment on farm land or further processed as an earth-like product for commercial and home gardens to improve and maintain fertile soil and stimulate plant growth.

Capital Improvement Program (CIP) – Projects for repair, rehabilitation, and replacement of assets. Also includes treatment improvements, additional capacity, and projects for the support facilities.

Coliform bacteria – A group of bacteria found in the intestines of humans and other animals, but also occasionally found elsewhere used as indicators of sewage pollution. E. coli are the most common bacteria in wastewater.

Collections system – In wastewater, it is the system of typically underground pipes that receive and convey sanitary wastewater or storm water.

Certificate of Participation (COP) – A type of financing where an investor purchases a share of the lease revenues of a program rather than the bond being secured by those revenues.

Glossary of Terms and Abbreviations

Contaminants of Potential Concern (CPC) – Pharmaceuticals, hormones, and other organic wastewater contaminants.

Dilution to Threshold (D/T) – the dilution at which the majority of the people detect the odor becomes the D/T for that air sample.

Greenhouse gases – In the order of relative abundance water vapor, carbon dioxide, methane, nitrous oxide, and ozone gases that are considered the cause of global warming (“greenhouse effect”).

Groundwater Replenishment (GWR) System – A joint water reclamation project that proactively responds to Southern California's current and future water needs. This joint project between the Orange County Water District and the Orange County Sanitation District provides 70 million gallons a day of drinking quality water to replenish the local groundwater supply.

Levels of Service (LOS) – Goals to support environmental and public expectations for performance.

NDMA – N-Nitrosodimethylamine is an N-nitrosoamine suspected cancer-causing agent. It has been found in the Groundwater Replenishment System process and is eliminated using hydrogen peroxide with extra ultra-violet treatment.

National Biosolids Partnership (NBP) – An alliance of the National Association of Clean Water Agencies (NACWA) and Water Environment Federation (WEF), with advisory support from the U.S. Environmental Protection Agency (EPA). NBP is committed to developing and advancing environmentally sound and sustainable biosolids management practices that go beyond regulatory compliance and promote public participation in order to enhance the credibility of local agency biosolids programs and improved communications that lead to public acceptance.

Plume – A visible or measurable concentration of discharge from a stationary source or fixed facility.

Publicly-owned Treatment Works (POTW) – Municipal wastewater treatment plant.

Santa Ana River Interceptor (SARI) Line – A regional brine line designed to convey 30 million gallons per day (MGD) of non-reclaimable wastewater from the upper Santa Ana River basin to the ocean for disposal, after treatment.

Sanitary sewer – Separate sewer systems specifically for the carrying of domestic and industrial wastewater. Combined sewers carry both wastewater and urban run-off.

South Coast Air Quality Management District (SCAQMD) – Regional regulatory agency that develops plans and regulations designed to achieve public health standards by reducing emissions from business and industry.

Secondary treatment – Biological wastewater treatment, particularly the activated-sludge process, where bacteria and other microorganisms consume dissolved nutrients in wastewater.

Sludge – Untreated solid material created by the treatment of wastewater.

Total suspended solids (TSS) – The amount of solids floating and in suspension in wastewater.

Trickling filter – A biological secondary treatment process in which bacteria and other microorganisms, growing as slime on the surface of rocks or plastic media, consume nutrients in wastewater as it trickles over them.

Glossary of Terms and Abbreviations

Urban runoff – Water from city streets and domestic properties that carry pollutants into the storm drains, rivers, lakes, and oceans.

Wastewater – Any water that enters the sanitary sewer.

Watershed – A land area from which water drains to a particular water body. OCSD's service area is in the Santa Ana River Watershed.